

CONFIDENTIAL

**UNITED STATES PACIFIC FLEET
AND PACIFIC OCEAN AREAS**



**JAPANESE PROJECTILES
VOLUME II**

**CINCPAC - CINCPOA
BULLETIN NO. 85 - 45
30 APRIL 1945**

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JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 81 mm

Designation: Type 97 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: TNT - 540 gm

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 97 Mortar

Remarks:

Diameter: 81 mm

Designation: Type 100 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 3.35 kg

Weight and Type of Filling: TNT - 536 gm

Fuzing: Type 100 Instantaneous Short Delay (Mortar)

Guns Used In: Type 97 Mortar

Remarks: Equipment Class - 1

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CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 88 mm

Designation: Type 100 Long-pointed AA Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 9.070 kg

Weight and Type of Filling: TNT - 900 gm

Fuzing: Type 100 Mechanical Time (Gun)

Guns Used In: Type 99 8 cm AA Gun

Remarks: Equipment Class - 1

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CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 90 mm

Designation: Type 94 Practice Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 5.280 kg

Weight and Type of Filling: Sand - 1.090 kg

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 94 Light Mortar

Remarks: Equipment Class - 4

Diameter: 90 mm

Designation: Type 94 Substitute Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 5.410 kg

Weight and Type of Filling: 455 gm

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 94 Light Mortar

Remarks: Equipment Class - 4

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 90 mm

Designation: Type 97 Smoke Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 618 mm

Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Combination (Modified) (Low
muzzle velocity)

Guns Used In: Type 94 Light Mortar

Remarks: Filled with 6 disk-shaped cannisters, each
containing 300 gm of "B" smoke compound
Bursting height 30-80 meters
Maximum range 1800-2200 meters

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CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 90 mm

Designation: Experimental Type 1 Smoke Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

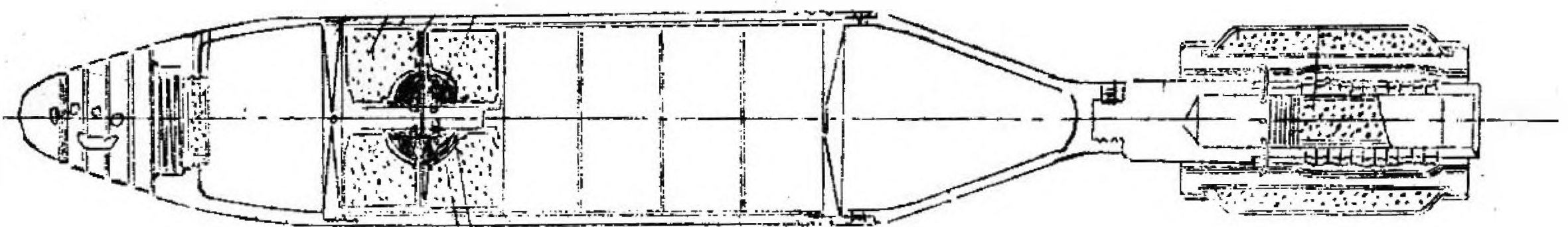
Projectile Weight: 8.575 kg

Weight and Type of Filling: Bursting charge - 5 gm
H.C. Smoke Compound - 1.800 kg

Fuzing: 5th Year Type Combination (Modified) (Low
muzzle velocity)

Guns Used In: Type 94 Light Mortar

Remarks:



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Diameter: 90 mm

Designation: Shrapnel Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: Fine grain powder

Fuzing: 5th Year Type Combination (Modified) and (Gun).

Guns Used In: 9 cm Gun
Schneider Type 9 cm Rapid Fire Gun

Remarks:

Diameter: 90 mm

Designation: Shrapnel Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: Fine grain powder

Fuzing:

Type 88 18 sec. Combination (when used in the
Schneider Gun)

32 sec. Combination (when used in the KODOSEI Gun)

50 sec. Combination (when used in the Steel Mortar)

Guns Used In:

Schneider Type 9 cm Rapid Fire Gun

KODOSEI (TN: 鋼銅制) 9 cm Rapid Fire Gun

Steel 9 cm. Artillery Mortar

Remarks:

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CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 90 mm

Designation: Cast Iron AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88 Nose

Guns Used In: Steel 9 cm Artillery Mortar

Remarks: Screw type friction primer

Diameter: 90 mm

Designation: HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88 Small Instantaneous

Guns Used In: Steel 9 cm Artillery Mortar

Remarks: Screw type friction primer

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Diameter: 90 mm

Designation: Type 94 HE Projectile

Color and Markings:

Projectile Length: 402 mm

Projectile Length With Fuze: 439.6 mm

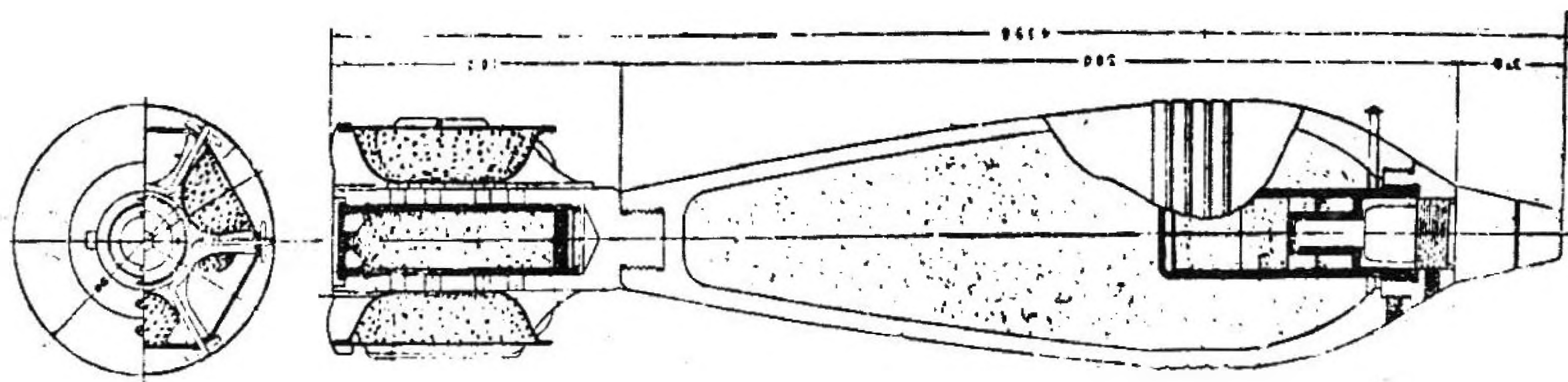
Projectile Weight: 5.260 kg

Weight and Type of Filling: TNT (poured) - 1.070 kg

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 94 Light Mortar

Remarks: Class C 40 gm booster
Percussion primer
Effective Radius - 30 meters
Equipment Class - 1



JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 90 mm

Designation: Type 94 Heavy HE Projectile

Color and Markings:

Projectile Length: 768 mm

Projectile Length With Fuze: 805.8 mm

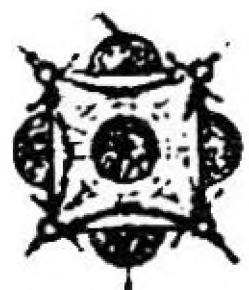
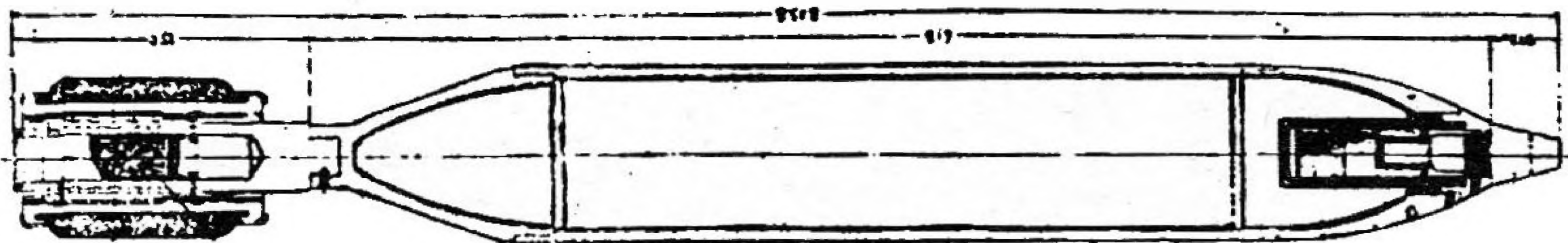
Projectile Weight: 11.230 kg

Weight and Type of Filling: ONAYAKU - 3.680 kg

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)
5th Year Type Combination

Guns Used In: Type 94 Light Mortar

Remarks: Class C 40 gm booster
Equipment Class - 1



Diameter: 90 mm

Designation: Type 96 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: TNT - 5.865 kg

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 96 Medium Inf Mortar

Remarks:

Diameter: 90 mm

Designation: Type 97 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: TNT - 4.080 kg

Fuzing: Type 100 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 97 Medium Inf Mortar

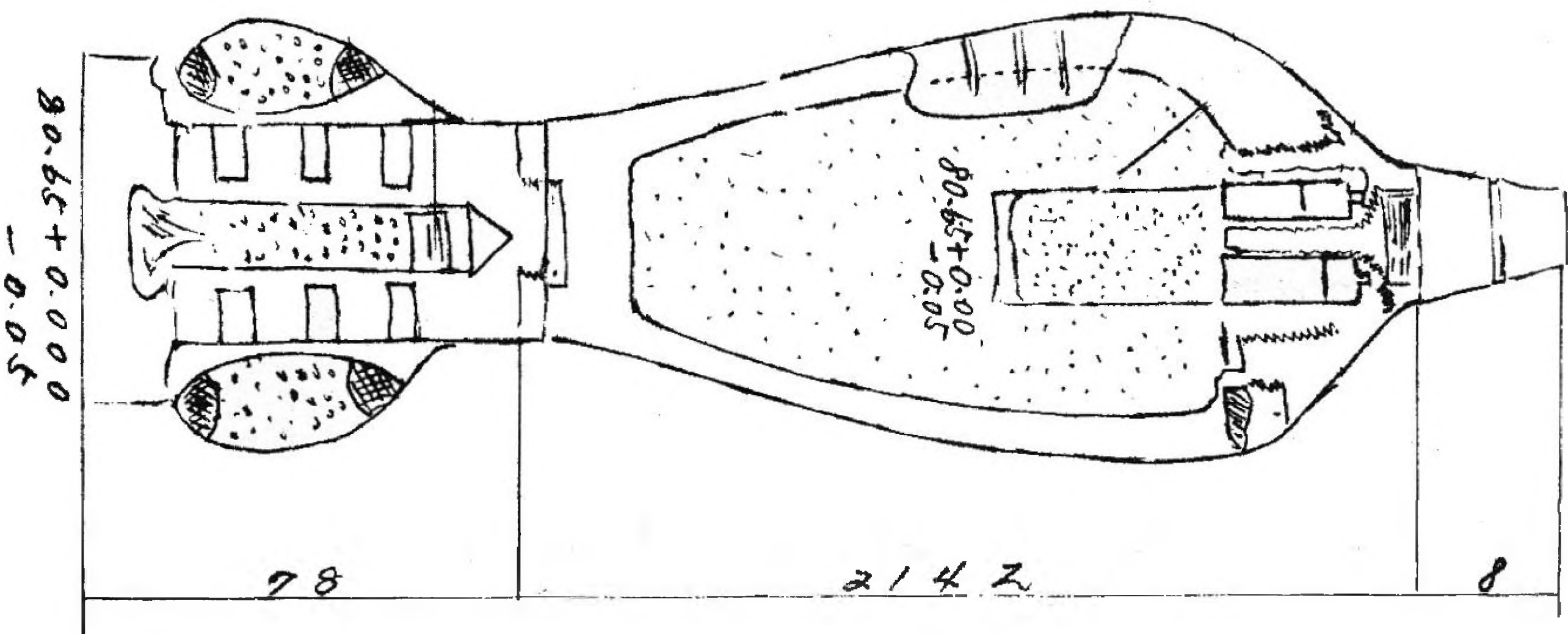
Remarks:

Diameter: 90 mm
Designation: Type 100 HE Projectile
Color and Markings:

Projectile Length: 214.2 mm
Projectile Length With Fuze: 252.2 mm
Projectile Weight: 3.350 kg
Weight and Type of Filling: TNT (poured) - 536 gm

Fuzing: Type 100 Instantaneous-Short Delay (Mortar)
Guns Used In: Type 97 Medium Inf Mortar

Remarks:



Diameter: 105 mm

Designation: Type 91 Substitute Long-pointed AA Projectile

Color and Markings:

Projectile Length:

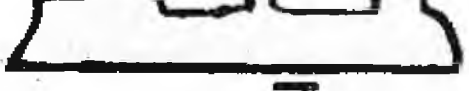
Projectile Length With Fuze:

Projectile Weight: 16.0 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 89 Long-pointed AA

Guns Used In: 14th Year 10 cm AA Gun

Remarks: Rotating band: 
TNT, HEINEIYAKU or SHOTOYAKU listed as
substitute fillers
Equipment Class - 4

Diameter: 105 mm

Designation: Type 95 Substitute Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 15.880 kg

Weight and Type of Filling: Fine grain powder

Fuzing:

5th Year Type Combination (Modified)
(10 cm Howitzer)

5th Year Type Combination (Modified)
(Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer
Improved 14th Year Type 10 cm Howitzer

Remarks: The Improved 14th Year Type Howitzer can use
either of the above fuzes; Type 91 Howitzer uses
only the 10 cm Howitzer type.

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CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 105 mm

Designation: Type 98 Substitute Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 15.800 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 98 Instantaneous-Short Delay (Howitzer)

Guns Used In: Type 91 10 cm Howitzer

Remarks: Projectile same as 14th Year Type Substitute

Diameter: 105 mm

Designation: 14th Year Type Substitute Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 15.860 kg

Weight and Type of Filling: Fine grain powder

Fuzing: 10th Year Type AA Time

Guns Used In: 14th Year Type 10 cm AA Gun

Remarks: Equipment Class - 4

Diameter: 105 mm

Designation: 14th Year Type Substitute Projectile A

Color and Markings:

Projectile Length:


Projectile Length With Fuze:

Projectile Weight: 15.880 kg

Weight and Type of Filling: Fine grain powder

Fuzing: 5th Year Type Combination (Modified)(Gun)
or (Howitzer-Mortar)

Guns Used In: Type 92 10 cm Gun Type 38 10 cm Gun
14th Year Type 10 cm Gun
7th Year Type 10 cm Gun

Remarks: Rotating band: 

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Diameter: 105 mm

Designation: 14th Year Type Substitute Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 15.710 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 88 Instantaneous (Gun) or (Howitzer-Mortar)
Type 88 Short Delay (Gun)

Guns Used In:

- Type 38 10 cm Gun
- 7th Year Type 10 cm Gun
- 14th Year Type 10 cm Gun
- Type 92 10 cm Gun
- Type 91 10 cm Howitzer
- Improved 14th Year Type 10 cm Howitzer

Remarks: Type A Fuze adapter (brass)
Type 91 and Improved 14th Year Type 10 cm
Howitzers take Howitzer-Mortar fuzes only.

Diameter: 105 mm

Designation: Type 87 Target Projectile, Red

Color and Markings: (赤) painted on projectile

Projectile Length:


Projectile Length With Fuze:

Projectile Weight: 12.420 kg

Weight and Type of Filling:

Fuzing: 10th Year Type AA Time (Low muzzle velocity)
Type 88 Long-pointed AA

Guns Used In: 14th Year Type 10 cm AA Gun

Remarks: Rotating band: 
Equipment Class - 4

Diameter: 105 mm

Designation: Type 87 Target Projectile, White

Color and Markings: (白) painted on projectile

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 12.420 kg

Weight and Type of Filling:

Fuzing: 10th Year Type AA Time (Low muzzle velocity)

Guns Used In: 14th Year Type 10 cm AA Gun

Remarks: Equipment Class - 4

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Diameter: 105 mm

Designation: Type 95 Incendiary Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

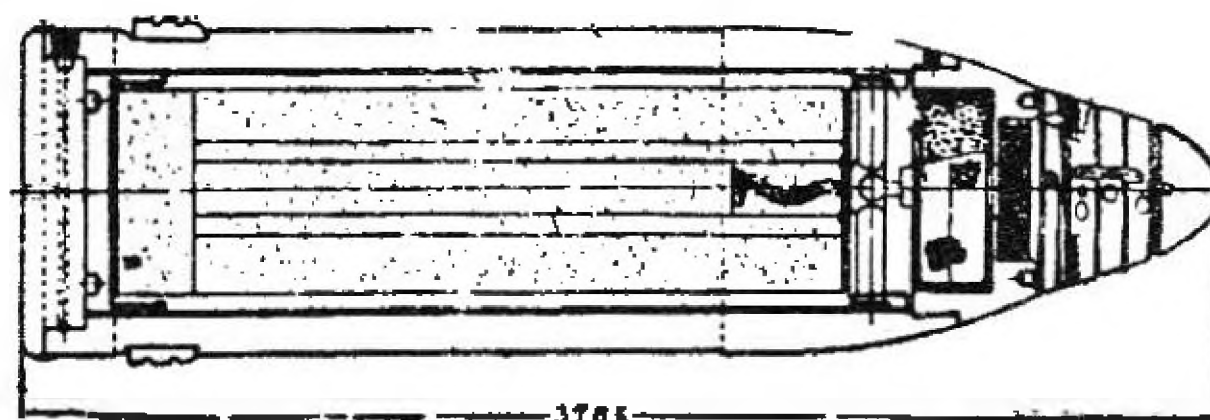
Projectile Weight: 16.000 kg

Weight and Type of Filling: Incendiary compound - 538 gm
Bursting charge - 110 gm

Fuzing: 5th Year Type Combination (Modified) (10 cm Howitzer)
5th Year Type Combination (Modified)
(Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer
Improved 14th Year Type 10 cm Howitzer

Remarks: The Improved 14th Year Type Howitzer can use
either of the above fuzes; Type 91 Howitzer uses
only the 10 cm Howitzer type.



Diameter: 105 mm

Designation: Type 95 Incendiary Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 16.000 kg

Weight and Type of Filling: Incendiary compound - 538 gm
Bursting charge - 110 gm

Fuzing: 5th Year Type Combination (Modified) (Gun)
5th Year Type Combination (Modified) (TN: 36 secs.
handwritten)

Guns Used In: 14th Year Type 10 cm Gun
Type 92 10 cm Gun
Type 38 10 cm Gun

Remarks:

Diameter: 105 mm

Designation: 14th Year Type Smoke Projectile

Color and Markings:

Projectile Length: 425.5 mm

Projectile Length With Fuze:

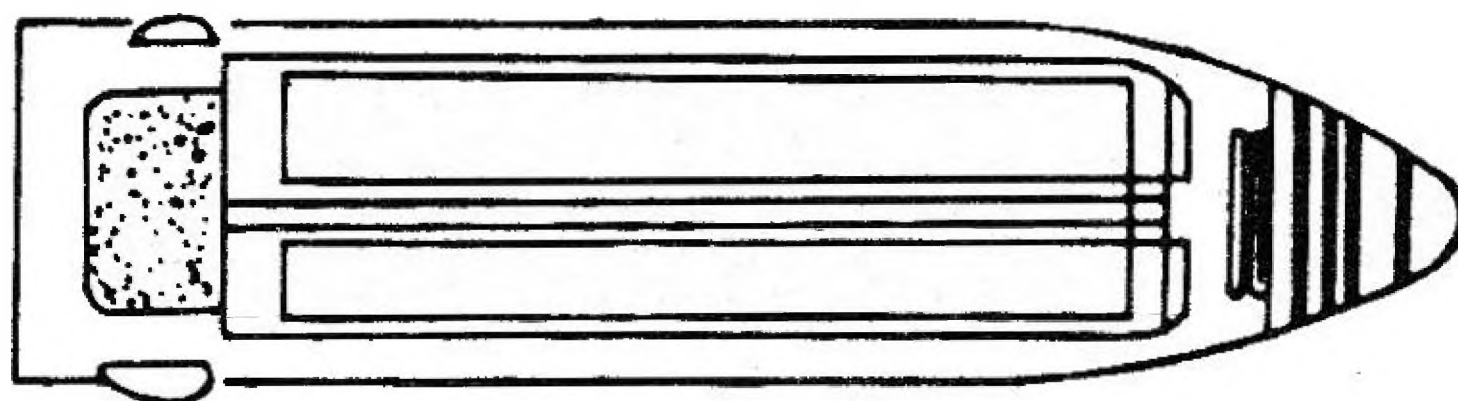
Projectile Weight: 16.170 kg

Weight and Type of Filling: Fine grain powder - 130 gm
W.P. - 2.570 kg

Fuzing: 5th Year Type Combination (Modified)(Gun)
5th Year Type Combination (Modified)(TN: 36 secs.
handwritten)

Guns Used In: Type 38 10 cm Gun
14th Year Type 10 cm Gun

Remarks:



Diameter: 105 mm

Designation: AP-HE Projectile A,B

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 416.7 mm

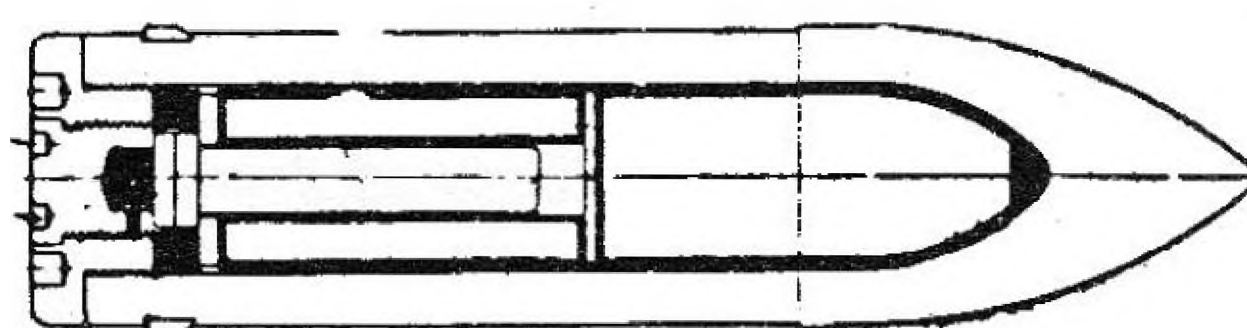
Projectile Weight: 18.040 kg

Weight and Type of Filling: TNT - 1.020 kg

Fuzing: Type 88 Small Base (Gun)

Guns Used In: Type 38 10 cm Gun

Remarks: ONAYAKU is also listed as a filler



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Diameter: 105 mm

Designation: AP-HE Projectile C

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 18.040 kg

Weight and Type of Filling: TNT - 1.500 kg

Fuzing: Type 88 Small Base (Gun)

Guns Used In: 7th Year Type 10 cm Gun

Remarks: Same as AP-HE Shell A except for rotating band
Rotating band:

Diameter: 105 mm

Designation: Cast Iron AP-HE Projectile A,B

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 408.0 mm

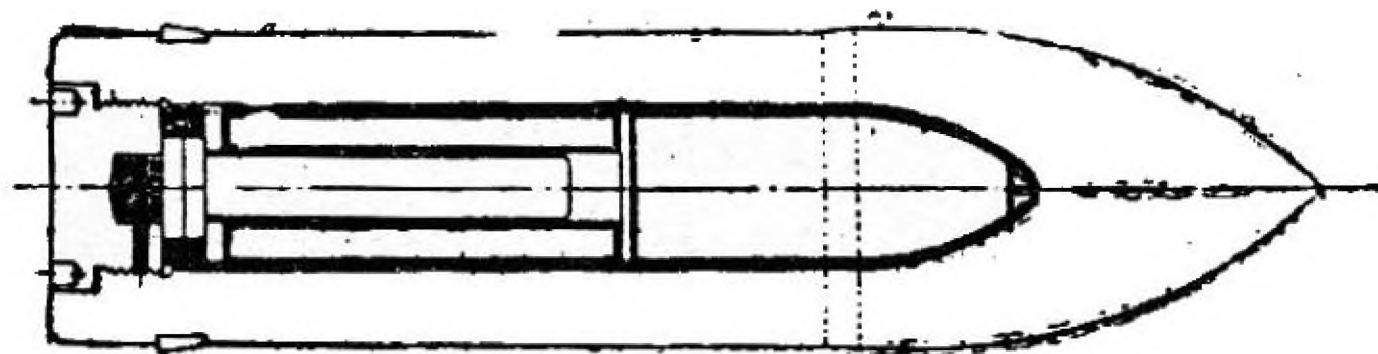
Projectile Weight: 18.230 kg

Weight and Type of Filling: TNT - 590 gm

Fuzing: A: Type 88 Small Base
B: Type 88 Mk. 2 Small Base

Guns Used In: Type 38 10 cm Gun

Remarks: ONAYAKU is also listed as a filler



Diameter: 105 mm

Designation: Cast Iron AP-HE Projectile C

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

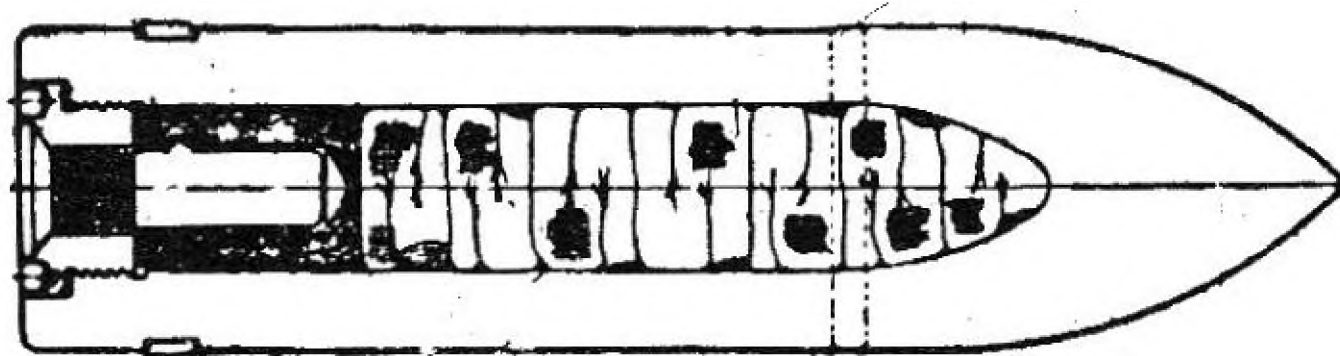
Projectile Weight: 17.770 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 88 Mk. 2 Small Base

Guns Used In: Type 38 10 cm Gun

Remarks:



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Diameter: 105 mm

Designation: Cast Iron AP-HE Projectile D

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 18.230 kg

Weight and Type of Filling: TNT - 1.500 kg

Fuzing: Type 88 Small Base (Gun)

Guns Used In: 7th Year Type 10 cm Gun

Remarks: Same as AP-HE Shell A except for rotating band
Rotating band:

Diameter: 105 mm

Designation: Chilled AP-HE Projectile A,B,C

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88 Mk. 2 Small Base

Guns Used In: Type 38 10 cm Gun

Remarks:

Diameter: 105 mm

Designation: Type 95 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 400 mm

Projectile Weight: 15.910 kg

Weight and Type of Filling: UNAYAKU

Fuzing: Type 95 Small AP Base

Guns Used In:

Type 91 10 cm Howitzer

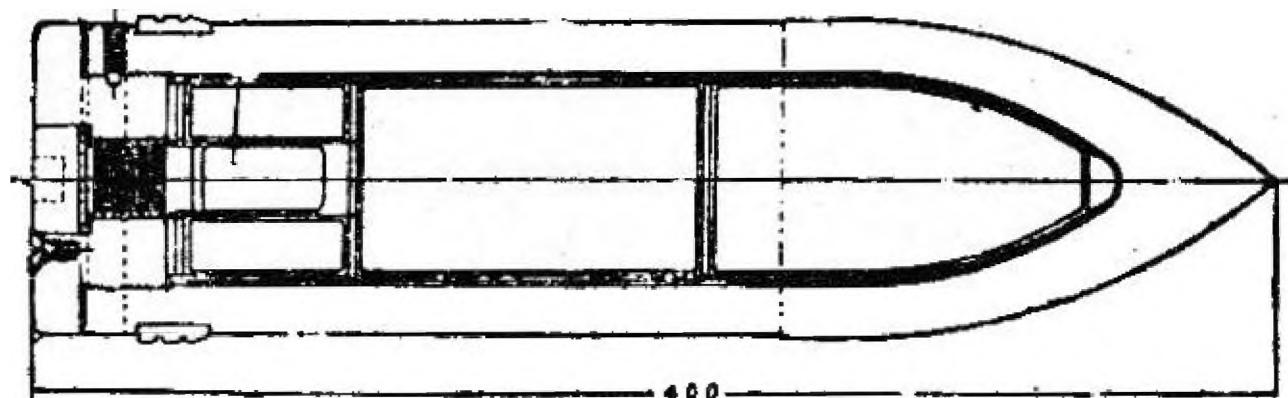
Improved 14th Year Type 10 cm Howitzer

Type 92 10 cm Gun

14th Year Type 10 cm Gun

Type 38 10 cm Gun

Remarks:



Diameter: 105 mm

Designation: 14th Year Type AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Combination (Modified) (Gun)
or (Howitzer-Mortar)

Guns Used In: Type 38 10 cm Gun

Remarks:

Diameter: 105 mm

Designation: Type 38 Shrapnel Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 398.3 mm


Projectile Weight: 18.000 kg

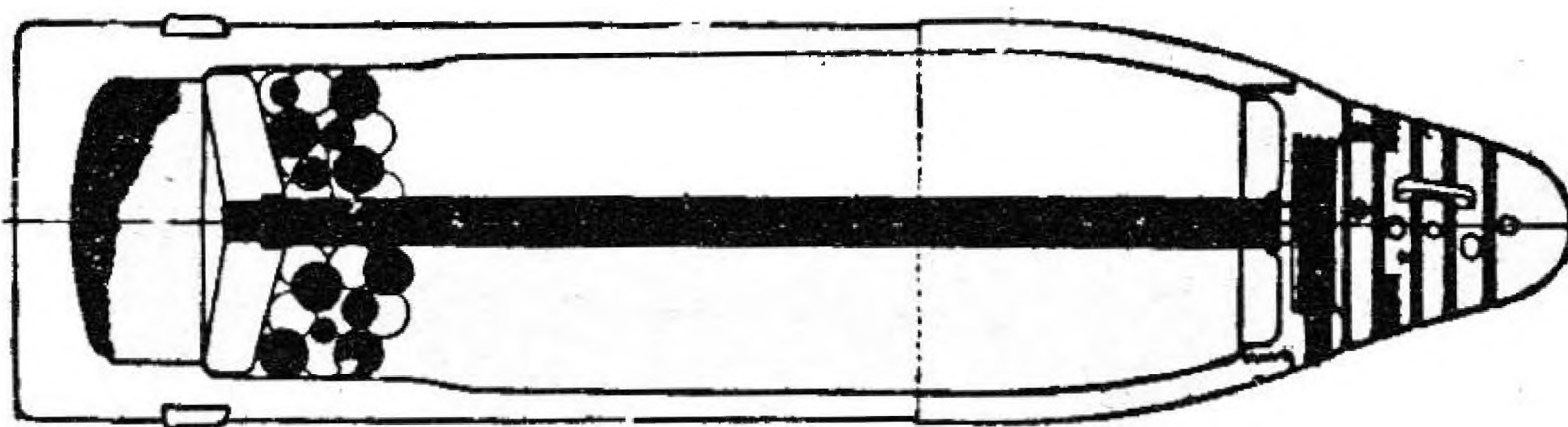
Weight and Type of Filling: Fine grain powder - 155 gm

Fuzing:

5th Year Type Combination (Modified) (Gun)
or (Howitzer-Mortar)
5th Year Type Combination (Modified)
(TN: 36 sec. handwritten)

Guns Used In: Type 38 10 cm Gun
7th Year Type 10 cm Gun

Remarks: Rotating band: 



Diameter: 105 mm

Designation: Type 95 Shrapnel Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 364.5 mm

Projectile Weight: 16.760 kg

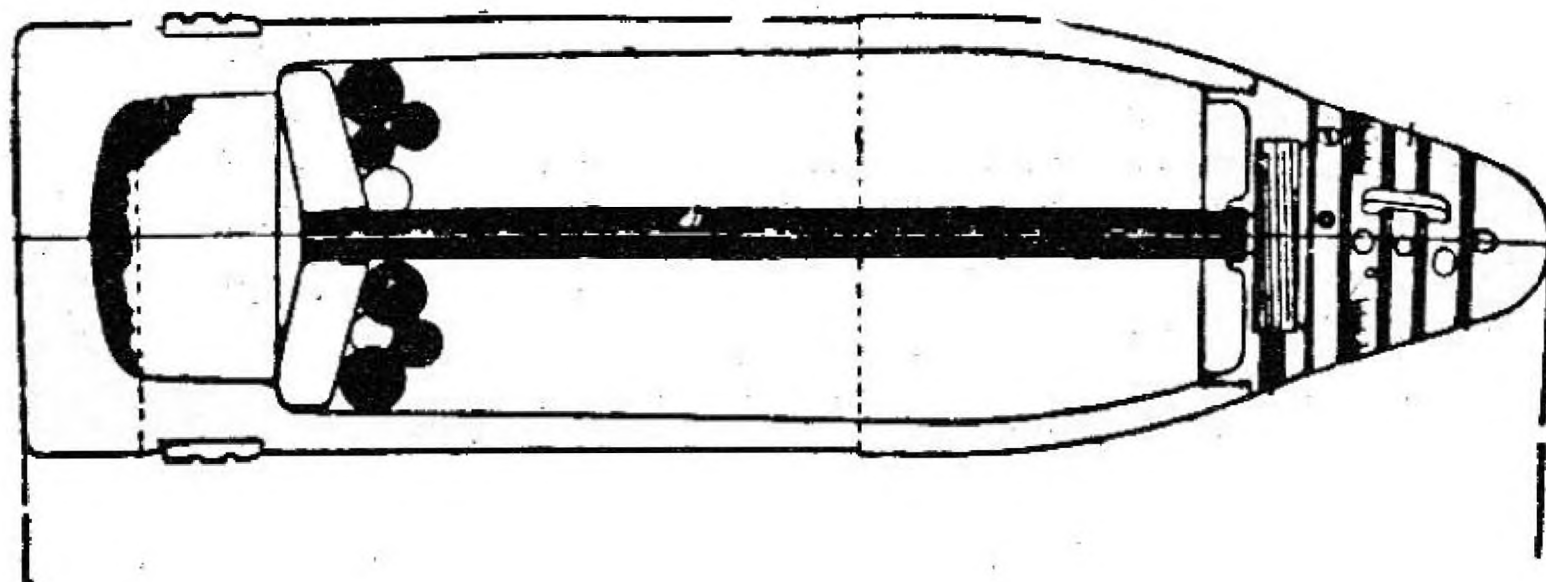
Weight and Type of Filling: Fine grain powder - 170 gm

Fuzing:

5th Year Type Combination (Modified)
(10 cm Howitzer)
5th Year Type Combination (Modified)
(Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer
Improved 14th Year Type 10 cm Howitzer

Remarks: Rotating band: 



Diameter: 105 mm

Designation: 14th Year Type Shrapnel Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 364.5 mm

Projectile Weight: 16.760 kg

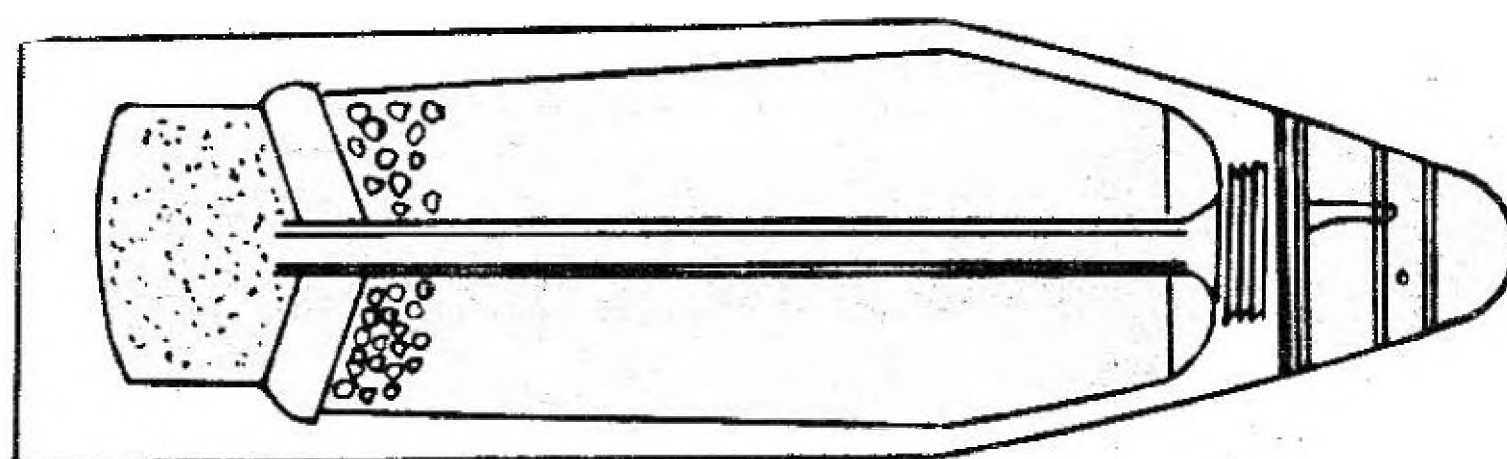
Weight and Type of Filling:

Fuzing: 5th Year Type Combination (Modified) (Gun)
or (Howitzer-Mortar)

Guns Used In:

7th Year Type 10 cm Gun
Type 92 10 cm Gun
14th Year Type 10 cm Gun
Type 38 10 cm Gun
Krupp 25 Cal Gun

Remarks:



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Diameter: 105 mm

Designation: HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: Picric acid

Fuzing: 14th Year Type Small Instantaneous Nose (Howitzer)
14th Year Type Small Short Delay (Howitzer)

Guns Used In: 14th Year Type 10 cm Howitzer

Remarks:

Diameter: 105 mm

Designation: Type 91 Semi-steel HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 456.3 mm

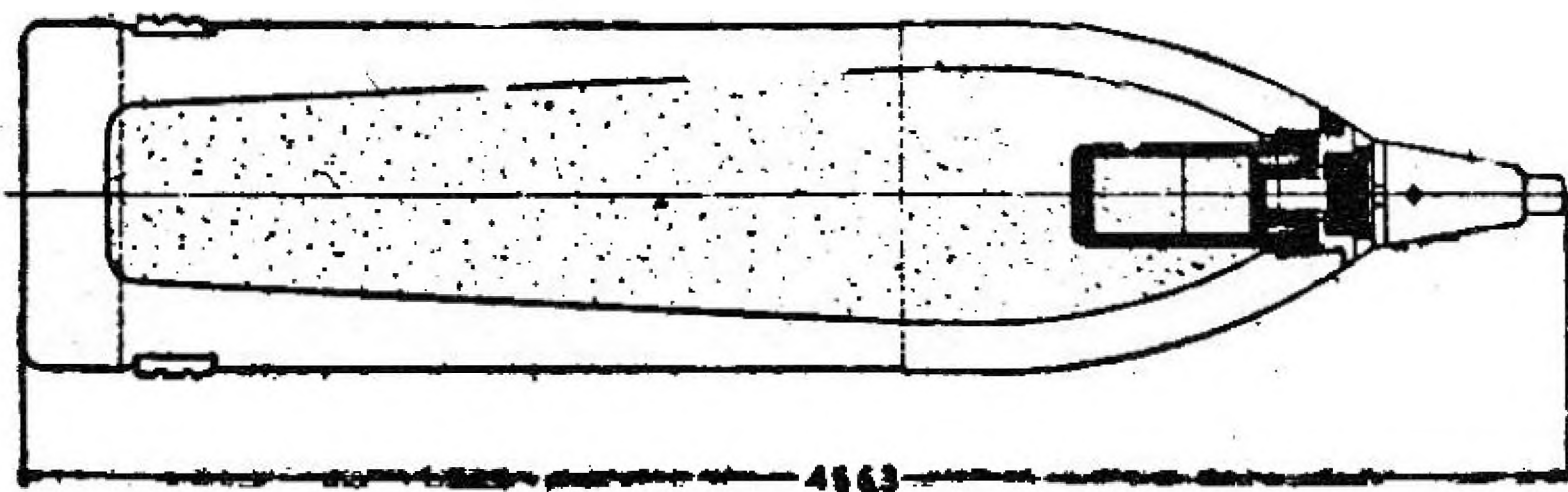
Projectile Weight: 16.00 kg

Weight and Type of Filling: TNT

Fuzing: Type 88 Instantaneous (Gun) or (Howitzer-Mortar)
Type 88 Short Delay (Gun)

Gun Used In: 14th Year Type 10 cm Gun
Type 38 10 cm Gun
Type 92 10 cm Gun

Remarks: Class A 40 gm booster tube



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Diameter: 105 mm

Designation: Type 91 Semi-steel Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: TNT - 1.740 kg

Fuzing: Type 88 - Instantaneous (Gun) or
(Howitzer-Mortar)

Type 88 - Short Delay (Gun)

Guns Used In: 14th Year Type 10 cm Gun

Type 38 10 cm Gun

Remarks:

Diameter: 105 mm

Designation: Type 91 Semi-steel Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 486.3 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 1.790 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)

Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer

Improved 14th Year Type 10 cm Howitzer

Type 92 10 cm Gun

Remarks:

Diameter: 105 mm

Designation: Type 91 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 480.8 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 2.270 kg

Fuzing: Type 88 Instantaneous (Gun) or
(Howitzer-Mortar)
Type 88 Short Delay (Gun)

Guns Used In: 14th Year Type 10 cm Gun
Type 38 10 cm Gun
Type 92 10 cm Gun

Remarks:



Diameter: 105 mm

Designation: Type 91 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 480.8 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 2.270 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer
Improved 14th Year Type 10 cm Howitzer

Remarks: Class A 40 gm booster
Excluding fuze, same as used in Types 92,
14th Year, and 38 10 cm Guns
ANGAYAKU may be substituted as a filler, and
when this is done the characters are painted
in white on the projectile.

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Diameter: 105 mm

Designation: Type 92 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 480.8 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling:

Fuzing: Type 88 Instantaneous (Gun) or
(Howitzer-Mortar)

Type 88 Short Delay (Gun)

Guns Used In: Type 92 10 cm Gun

Remarks:

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CONFIDENTIAL.
30 APRIL 1945.

Diameter: 105 mm

Designation: Type 98 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 16.000 kg

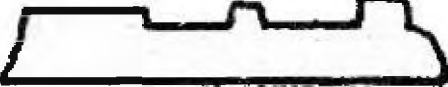
Weight and Type of Filling: TNT - 2.27 kg

Fuzing:

Type 98 Instantaneous-Short Delay
(Howitzer)

Type 88 Instantaneous-Short Delay
(Inf Gun-Howitzer)

Guns Used In: Type 91 10 cm Howitzer

Remarks: Rotating band: 
ANGAYAKU and HEINEIYAKU are listed as
substitute fillers.

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 105 mm

Designation: 14th Year Type HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 480.8 mm

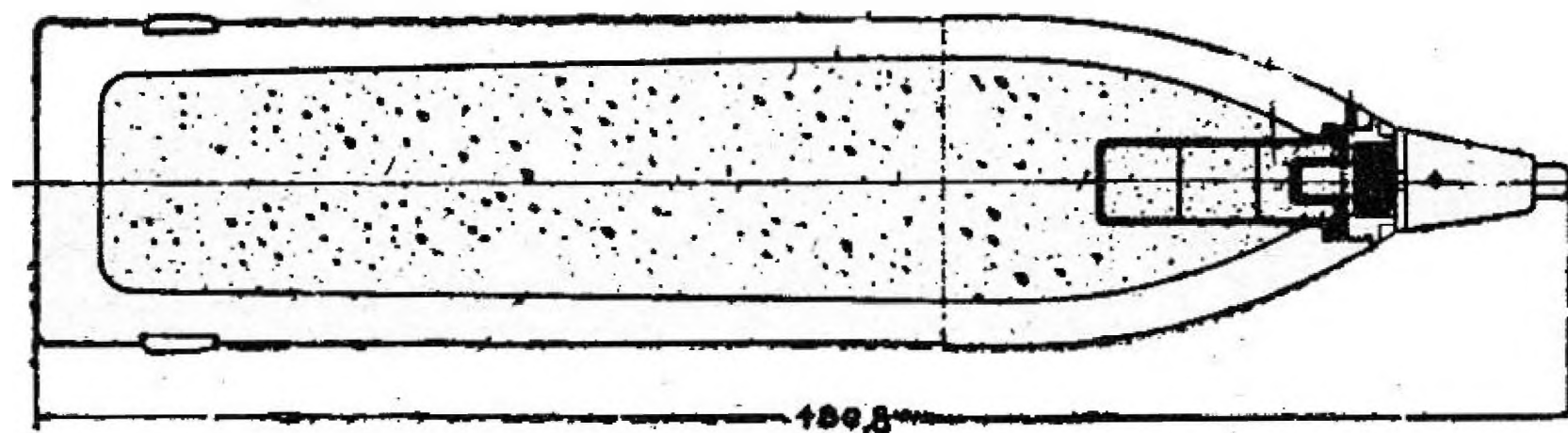
Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 2.270 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer
Improved 14th Year Type 10 cm Howitzer

Remarks: Picric acid booster



Diameter: 105 mm

Designation: 14th Year Type HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 480.8 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 2.270 kg

Fuzing: Type 88 Instantaneous (Gun) or
(Howitzer-Mortar)

Type 88 Short Delay (Gun)

Guns Used In: 14th Year Type 10 cm Gun
Type 38 10 cm Gun

Remarks:

Diameter: 105 mm

Designation: 14th Year Type Semi-steel HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 456.3 mm

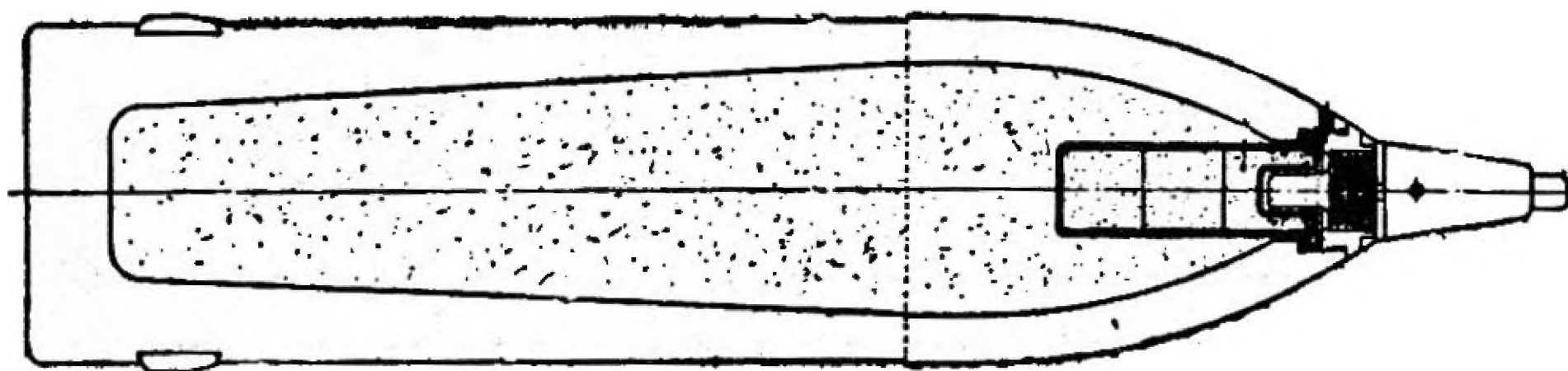
Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 1.790 kg

Fuzing: Type 88 Instantaneous (Gun) or
(Howitzer-Mortar)
Type 88 Short Delay (Gun)

Guns Used In: 14th Year Type 10 cm Gun
Type 38 10 cm Gun

Remarks: Picric acid booster



Diameter: 105 mm

Designation: 14th Year Type Semi-steel HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 456.3 mm

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 1.790 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer
Improved 14th Year Type 10 cm Howitzer

Remarks:

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Diameter: 105 mm

Designation: Type 1 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: TNT - 2.200 kg

Fuzing: Type 1 Instantaneous-Short Delay
(Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer

Remarks:

Diameter: 105 mm

Designation: Type 1 Long-pointed AA Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 15.80 kg

Weight and Type of Filling: TNT

Fuzing: Type 100 Mechanical Time (Gun)

Guns Used In: 14th Year Type 10 cm AA Gun

Remarks: Equipment Class - 1

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Diameter: 105 mm

Designation: Type 91 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 557.3 mm

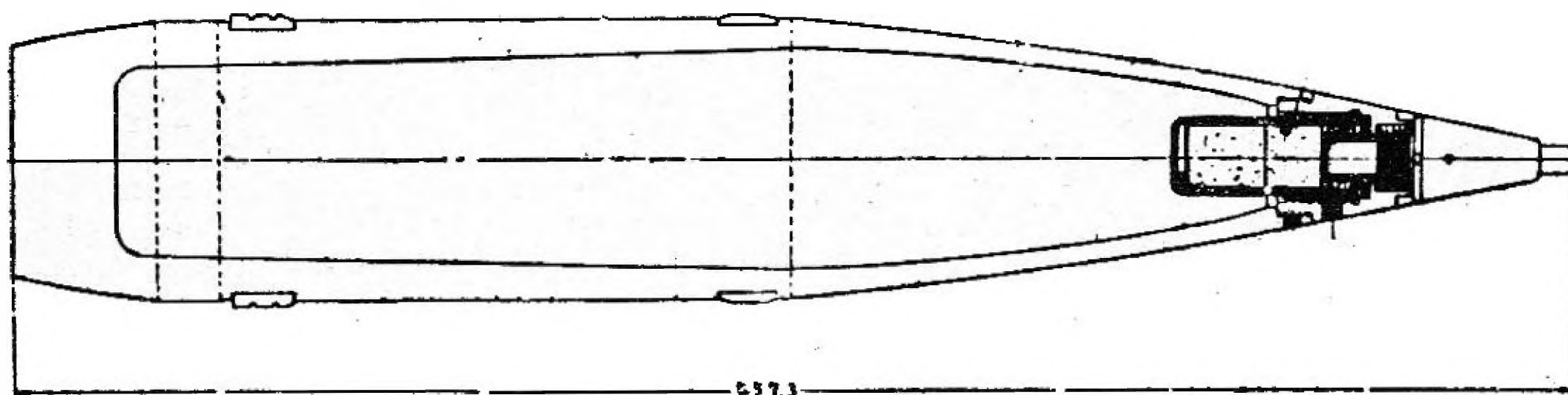
Projectile Weight: 15.760 kg

Weight and Type of Filling: TNT - 1.790 kg

Fuzing: Type 88 Instantaneous (Gun) or
(Howitzer-Mortar)

Guns Used In: 14th Year Type 10 cm Gun
Type 38 10 cm Gun
Type 92 10 cm Gun

Remarks:



Diameter: 105 mm

Designation: Type 91 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 557.3 mm

Projectile Weight: 15.760 kg

Weight and Type of Filling: TNT - 2.520 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer
Improved 14th Year Type 10 cm Howitzer

Remarks: Class A 40 gm booster
Except for fuze same projectile as used in
Types 92, 14th Year, and 38 10 cm Guns
Effective Radius - 30 meters

Diameter: 105 mm

Designation: Type 91 Long-pointed AA Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 2.385 kg

Fuzing: Type 89 Long-pointed AA

Guns Used In: 14th Year Type 10 cm AA Gun

Remarks: Class A 40 gm booster tube

Rotating band: 

Equipment Class - 1

Diameter: 105 mm

Designation: Type 95 Long-pointed Projectile

Color and Markings:

Projectile Length:

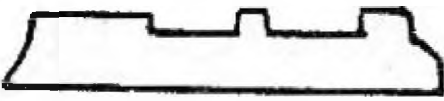
Projectile Length With Fuze:

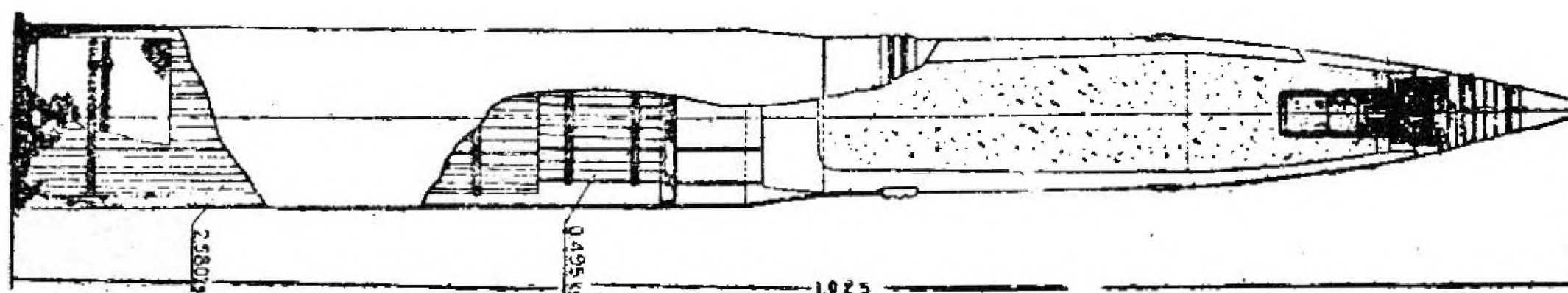
Projectile Weight: 15.760 kg

Weight and Type of Filling: TNT - 2.520 kg

Fuzing: Type 88 Instantaneous (Gun)
Type 88 Short Delay (Gun)

Guns Used In: 14th Year Type 10 cm Gun
Type 38 10 cm Gun
Type 92 10 cm Gun

Remarks: Rotating band: 
Class A 40 gm booster tube
Effective Radius - 30 meters



Diameter: 105 mm

Designation: Type 95 Long-pointed Projectile

Color and Markings:

Projectile Length:

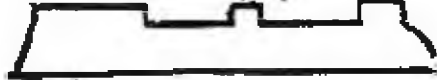
Projectile Length With Fuze:

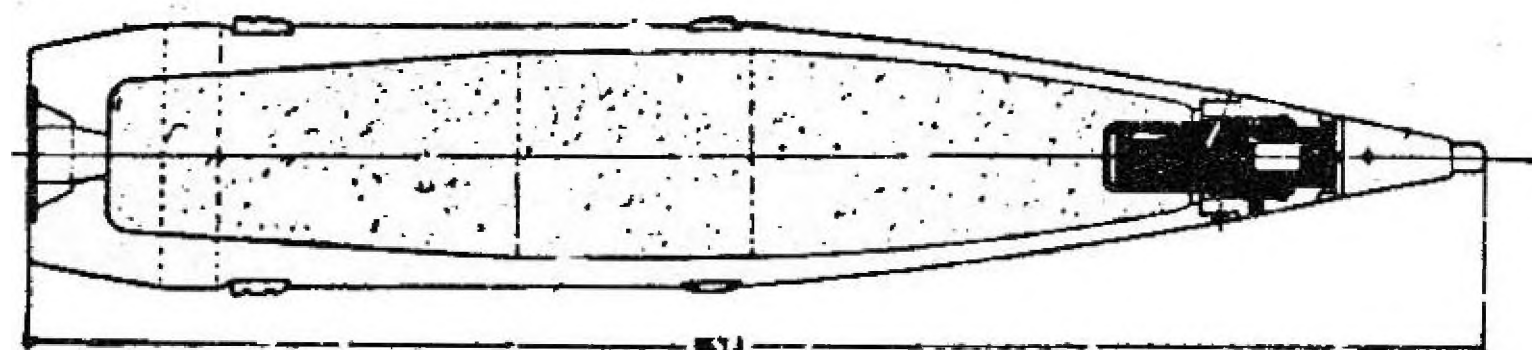
Projectile Weight: 15.760 kg

Weight and Type of Filling: TNT - 2.520 gm

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 91 10 cm Howitzer
14th Year Type 10 cm Howitzer
Improved 14th Year Type 10 cm Howitzer

Remarks: Rotating band: 
HEINEIYAKU and SHOTOYAKU are listed as
substitute fillers
Improved 14th Year Type can also use Gun type fu



Diameter: 105 mm

Designation: 14th Year Type Semi-steel Long-pointed
Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 484.3 mm

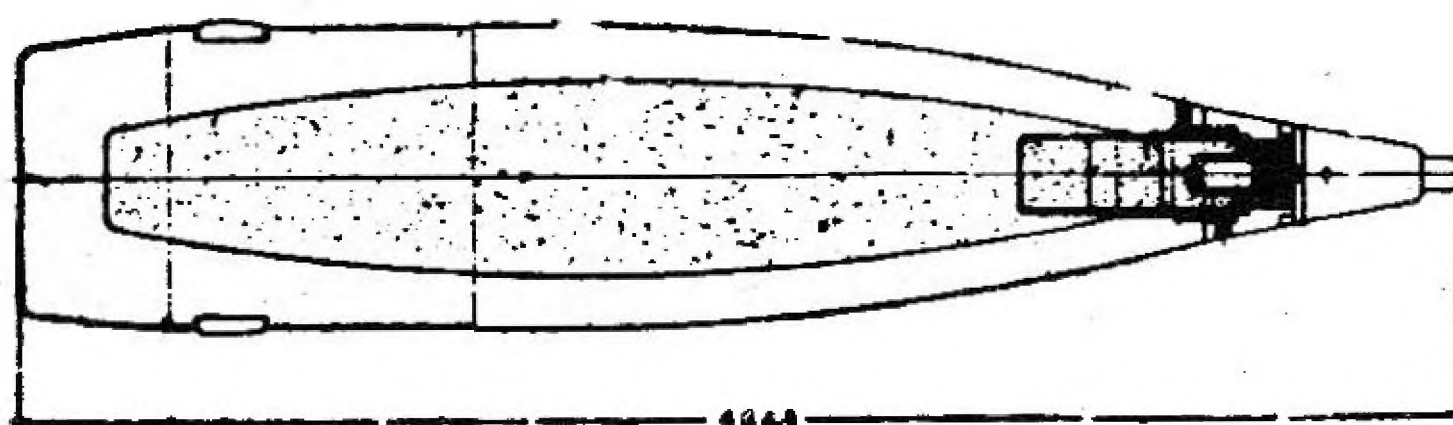
Projectile Weight: 16.000 kg

Weight and Type of Filling: TNT - 1.160 kg

Fuzing: Type 88 Instantaneous (Gun) or
(Howitzer-Mortar)
Type 88 Short Delay (Gun)

Guns Used In: Type 38 10 cm Gun
14th Year Type 10 cm Gun
Type 92 10 cm Gun
Type 91 10 cm Howitzer

Remarks: Picric acid booster



Diameter: 120 mm

Designation: Type 96 Improved Substitute Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 20.0 kg

Weight and Type of Filling:

Fuzing: Dummy

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 4

Diameter: 120 mm

Designation: Type 88 Substitute Projectile A, B, F, H

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: A, F: 19.89 kg
B, H: 19.87 kg

Weight and Type of Filling:

Fuzing: 5th Year Type Combination (Modified)
(Howitzer-Mortar)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 4

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Diameter: 120 mm

Designation: AP-HE Projectile A,B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 20.000 kg

Weight and Type of Filling: Picric acid - 1.340 kg

Fuzing: Type 88 Small Base (Howitzer-Mortar)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 1

Diameter: 120 mm

Designation: Cast Iron AP-HE Projectile C,J

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: C - 19.628 kg
J - 16.480 kg

Weight and Type of Filling: C - Fine grain powder 430 gm
J - Fine grain powder 400 gm

Fuzing: C - Type 88 Small Base Fuze for Black Powder
(Howitzer-Mortar)
J - Type 88 Nose

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 2

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Diameter: 120 mm

Designation: Type 88 AP-HE Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 20.00 kg

Weight and Type of Filling: TNT - 1.340 kg

Fuzing: Type 88 Small Base (Howitzer-Mortar)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 1

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Diameter: 120 mm

Designation: Shrapnel Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: Fine grain powder

Fuzing: 5th Year Type Combination (Modified) (TN: 36 secs.
handwritten)

5th Year Type Combination (Modified) (Gun)

Guns Used In: Schneider Type 12 cm Rapid Fire Gun
Krupp Type 12 cm 40 Cal Rapid Fire Gun

Remarks:

Diameter: 120 mm

Designation: Shrapnel Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 20.000 kg

Weight and Type of Filling: Fine grain powder - 182 gm

Fuzing: 5th Year Type Combination (Modified)
(Howitzer-Mortar)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 1

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Diameter:, 120 mm

Designation: Shrapnel Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 20.000 kg

Weight and Type of Filling: Fine grain powder 182 gm

Fuzing: 35 second Combination (Modified)
5th Year Type Combination (Modified)
(Howitzer-Mortar)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 3

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 120 mm

Designation: Shrapnel Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: Fine grain powder

Fuzing:

Type 88 18 second Combination

5th Year Type Combination (Modified)(TN: 36 seconds
handwritten)

5th Year Type Combination (Modified)(Gun)

32 Second Combination

Guns Used In: Schneider Type 12 cm Rapid Fire Gun
Krupp Type 12 cm 40 Cal Rapid Fire Gun
KODOSEI (TN: 鋼銅制) Canet Type 12 cm
Remarks: Rapid Fire Gun

Diameter: 120 mm

Designation: Shrapnel Projectile C

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 17.000 kg

Weight and Type of Filling: Fine grain powder - 220 gm

Fuzing: 5th Year Type Combination (Modified)
(Howitzer-Mortar)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 2

Diameter: 120 mm

Designation: Type 97 Improved Semi-steel HE Projectile A,B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: A: 16.73 kg
B: 18.75 kg

Weight and Type of Filling: A: TNT - 1.44 kg
B: TNT - 1.32 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 2

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

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30 APRIL 1945.

Diameter: 120 mm

Designation: Type 98 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 20.00 kg

Weight and Type of Filling: TNT - 3.170 kg

Fuzing: Type 98 Instantaneous-Short Delay (Inf Howitzer)

Guns Used In: Type 38 12 cm Howitzer

Remarks: Equipment Class - 1

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Diameter: 150 mm

Designation: Substitute Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Inf. Mortar (Modified)

Guns Used In: Type 93 15 cm Inf Mortar

Remarks: Mk. 2, Model 3 Cartridge Case & Percussion
Primer

Diameter: 150 mm

Designation: Substitute Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 44.900 kg

Weight and Type of Filling: Fine grain powder

Fuzing: 5th Year Type Combination (Modified)(Gun)

Guns Used In: Type 89 15 cm Gun 7th Year Type 15 cm Gun
Type 45 15 cm Gun Type 90 15 cm Gun

Remarks: Equipment Class - 4

Diameter: 150 mm

Designation: Substitute Projectile A

Color and Markings:

Projectile Length: 438.2 mm

Projectile Length With Fuze:

Projectile Weight: 36.000 kg

Weight and Type of Filling: Fine grain powder - 310 gm

Fuzing: 5th Year Type Combination (Modified)
(Howitzer-Mortar)

Guns Used In:

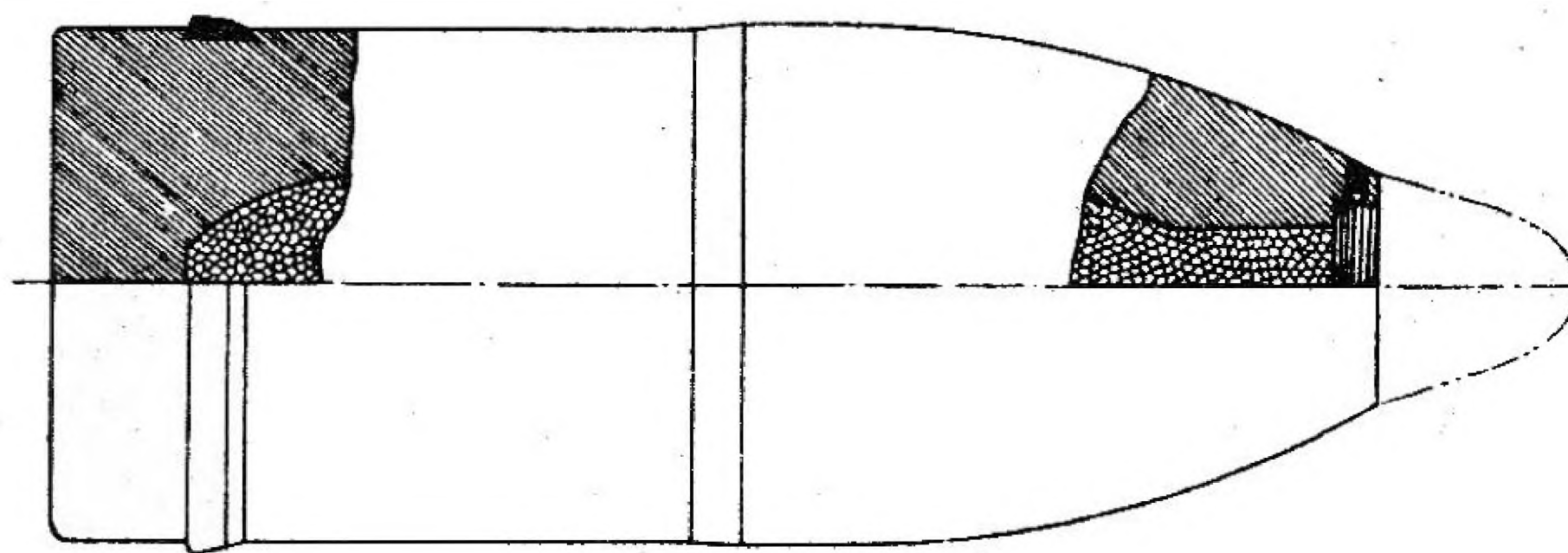
4th Year Type 15 cm Howitzer

Type 38 15 cm Howitzer

Improved 4th Year Type 15 cm Howitzer

Steel 15 cm Mortar

Remarks: Length also given as 436.7 mm
Weight of fine grain powder also given as 850 gm
Equipment Class - 4



Diameter: 150 mm

Designation: Improved Substitute Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 35.800 kg

Weight and Type of Filling: Fine grain powder

Fuzing: 5th Year Type Combination (Modified)
(Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer
Steel 15 cm Mortar

Remarks: Equipment Class - 4

Diameter: 150 mm

Designation: Substitute Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 45.100 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 90 Instantaneous-Short Delay (Gun)

Guns Used In: Type 89 15 cm Gun 7th Year Type 15 cm Gun
Type 45 15 cm Gun Type 90 15 cm Gun

Remarks: This projectile fitted with Type C fuze
adapter (bar steel)
Equipment Class - 4

Diameter: 150 mm

Designation: Substitute Projectile B

Color and Markings:

Projectile Length: 430 or 436 mm

Projectile Length With Fuze:

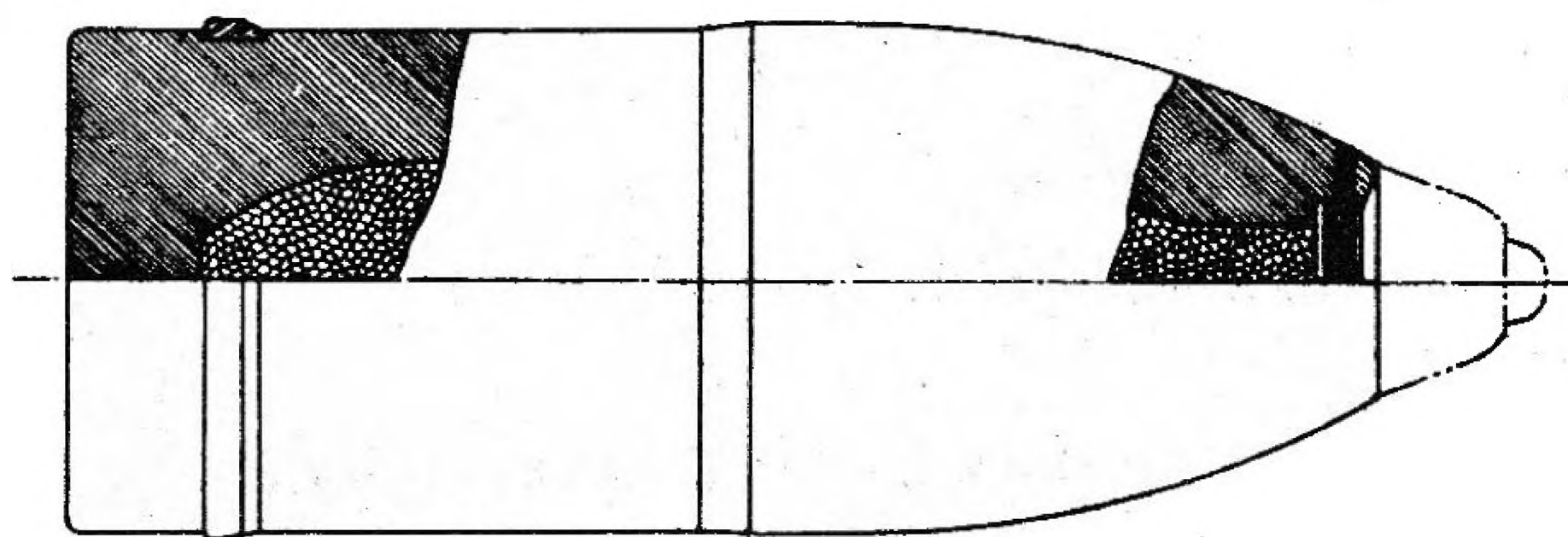
Projectile Weight: 36.000 kg

Weight and Type of Filling: Fine grain powder - 850 gm

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)
5th Year Type Combination (Howitzer-Mortar)
35 second Combination (Modified)

Guns Used In: 4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer
Improved 4th Year Type 15 cm Howitzer
Steel 15 cm Mortar

Remarks: This projectile is fitted with Type A fuze
adapter (brass)
Equipment Class - 4



Diameter: 150 mm

Designation: Improved Substitute Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 35.640 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer
Steel 15 cm Mortar

Remarks: Projectile fitted with Type A fuze adapter
(brass)
Equipment Class - 4

Diameter: 150 mm

Designation: Substitute Projectile C

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 35.2 kg

Weight and Type of Filling:

Fuzing: Type 88 Flush Base

Guns Used In: 4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer

Remarks: Equipment Class - 4

Diameter: 150 mm

Designation: Chilled AP Projectile (For Practice)

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 45.650 kg

Weight and Type of Filling: Sand

Fuzing: None

Guns Used In: SANKO (TN: 参克) Type Barbette 15 cm
Mtn Gun

Remarks:

Diameter: 150 mm

Designation: Chilled AP Projectile A (For Practice)

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 51.000 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 88 Small Base fuze for Black Powder

Guns Used In: Krupp Type 15 cm 35 Cal Gun

Remarks:

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Diameter: 150 mm

Designation: Chilled AP Projectile B (For Practice)

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 51.000 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 88 Sea Coast Gun Base

Guns Used In: Krupp Type 15 cm 35 Cal Gun

Remarks:

Diameter: 150 mm

Designation: Substitute AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 44.7 kg

Weight and Type of Filling:

Fuzing: Type 88 Small Base Fuze for Black Powder (Gun)

Guns Used In: Type 45 15 cm Gun Type 89 15 cm Gun
7th Year Type 15 cm Gun
Type 90 15 cm Gun

Remarks: Equipment Class - 4

Diameter: 150 mm

Designation: Shrapnel Projectile A (For Practice)

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 51.000 kg

Weight and Type of Filling: Sand

Fuzing: Dummy

Guns Used In: Krupp Type 15 cm 35 Cal Gun

Remarks: Formerly designated Steel Shrapnel

Diameter: 150 mm

Designation: Shrapnel Projectile B (For Practice)

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 39.000 kg

Weight and Type of Filling: Sand

Fuzing: Dummy

Guns Used In: Krupp Type 15 cm 35 Cal Gun

Remarks: Formerly designated Steel Shrapnel

Diameter: 150 mm

Designation: Type 96 Substitute Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 35.840 kg

Weight and Type of Filling: Fine grain powder

Fuzing: 5th Year Type Combination (Modified)
(Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer
Type 96 15 cm Howitzer Steel 15 cm Mortar

Remarks: One source notes this projectile "used
extensively" in Type 96 Howitzer
Equipment Class - 4

Diameter: 150 mm

Designation: Type 96 Substitute Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 35.670 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 88 Instantaneous
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer
Type 96 15 cm Howitzer Steel 15 c Mortar

Remarks: One source notes this projectile "used
extensively" in Type 96 Howitzer
Equipment Class - 4

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Diameter: 150 mm

Designation: Type 89 Illuminating Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 535.4 mm

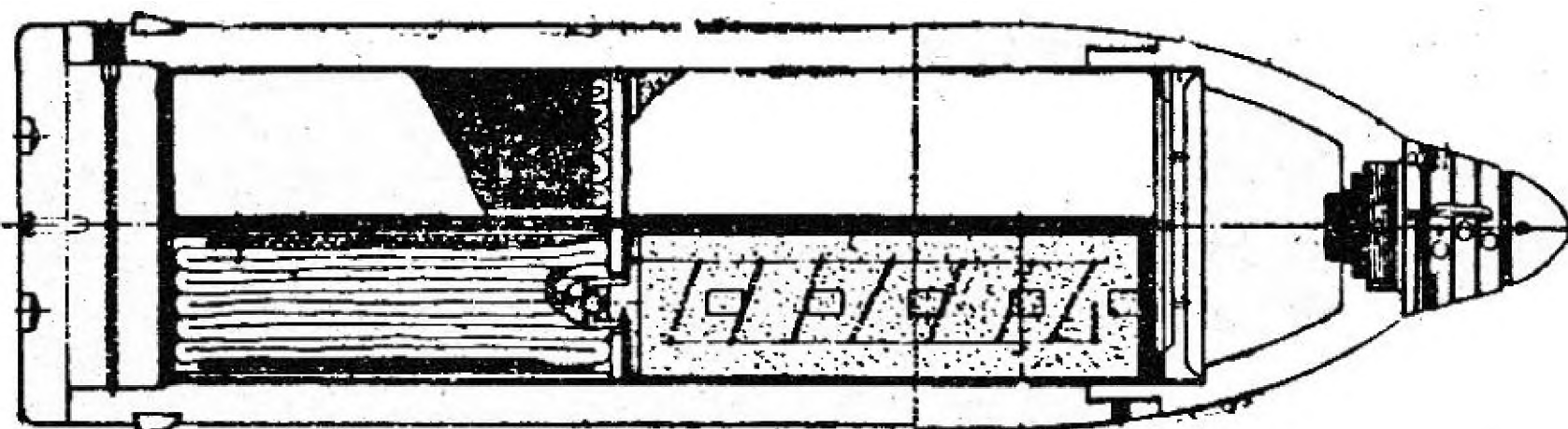
Projectile Weight: 36.500 kg

Weight and Type of Filling: Illuminating compound - 630 gm

Fuzing: 5th Year Type Combination (Modified)
(Howitzer-Mortar)

Guns Used In: Type 45 15 cm Gun
7th Year Type 15 cm Gun
Type '90 15 cm Gun
4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer
Steel 15 cm Mortar

Remarks: Equipment Class - 1
Burning time - 50 seconds



Diameter: 150 mm

Designation: 11th Year Type Smoke Projectile

Color and Markings:

Projectile Length: 544.3 mm

Projectile Length With Fuze:

Projectile Weight: 33.3 kg

Weight and Type of Filling: TNT & picric acid - 1.090 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer

Remarks:

Diameter: 150 mm

Designation: 13th Year Type Smoke Projectile

Color and Markings:

Projectile Length: 487.8 mm

Projectile Length With Fuze: 544.6 mm

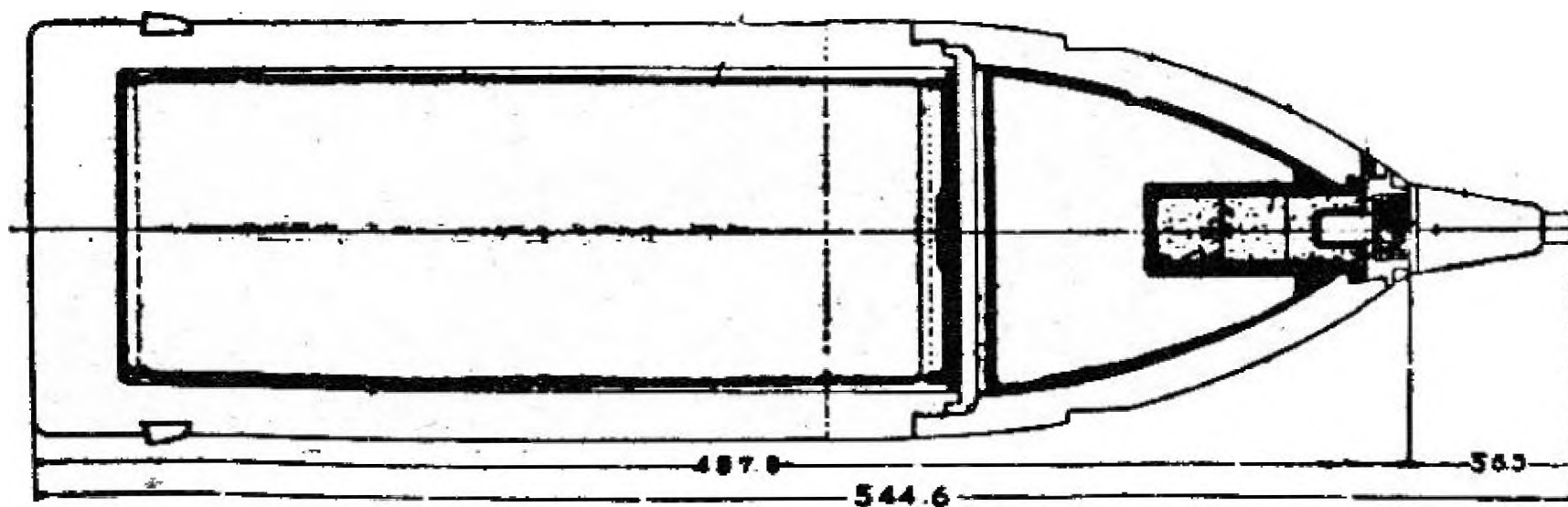
Projectile Weight: 33.000 kg

Weight and Type of Filling: W.P. - 4.500 kg
Picric acid

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer
Steel 15 cm Mortar

Remarks: Equipment Class - 2
Picric acid booster
Smoke screen - 100 meters wide for approx.
2½ minutes



Diameter: 150 mm

Designation: AP Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 41.000 kg

Weight and Type of Filling: Fine grain powder

Fuzing: None

Guns Used In: Krupp Type 15 cm 35 Cal Gun

Remarks:

Diameter: 150 mm

Designation: Cast Iron AP Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 41.000 kg

Weight and Type of Filling: Fine grain powder

Fuzing: Type 88 Base Fuze for Black Powder (Gun)

Guns Used In: SHIKA (TN: Schneider-Creusot ?) Type 15 cm
Rapid Fire Gun

Remarks:

Diameter: 150 mm

Designation: Cast Iron AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 41.000 kg

Weight and Type of Filling: Picric acid

Fuzing: Type 88 Small Base (Gun)

Guns Used In: SHIKA (TN: Schneider-Creusot ?) 15 cm
Rapid Fire Gun

Remarks:

Diameter: 150 mm

Designation: Cast Iron AP-HE Projectile A,C,D,G,H

Color and Markings:

Projectile Length:

Projectile Length With Fuze: A,D,G: 445.7 mm

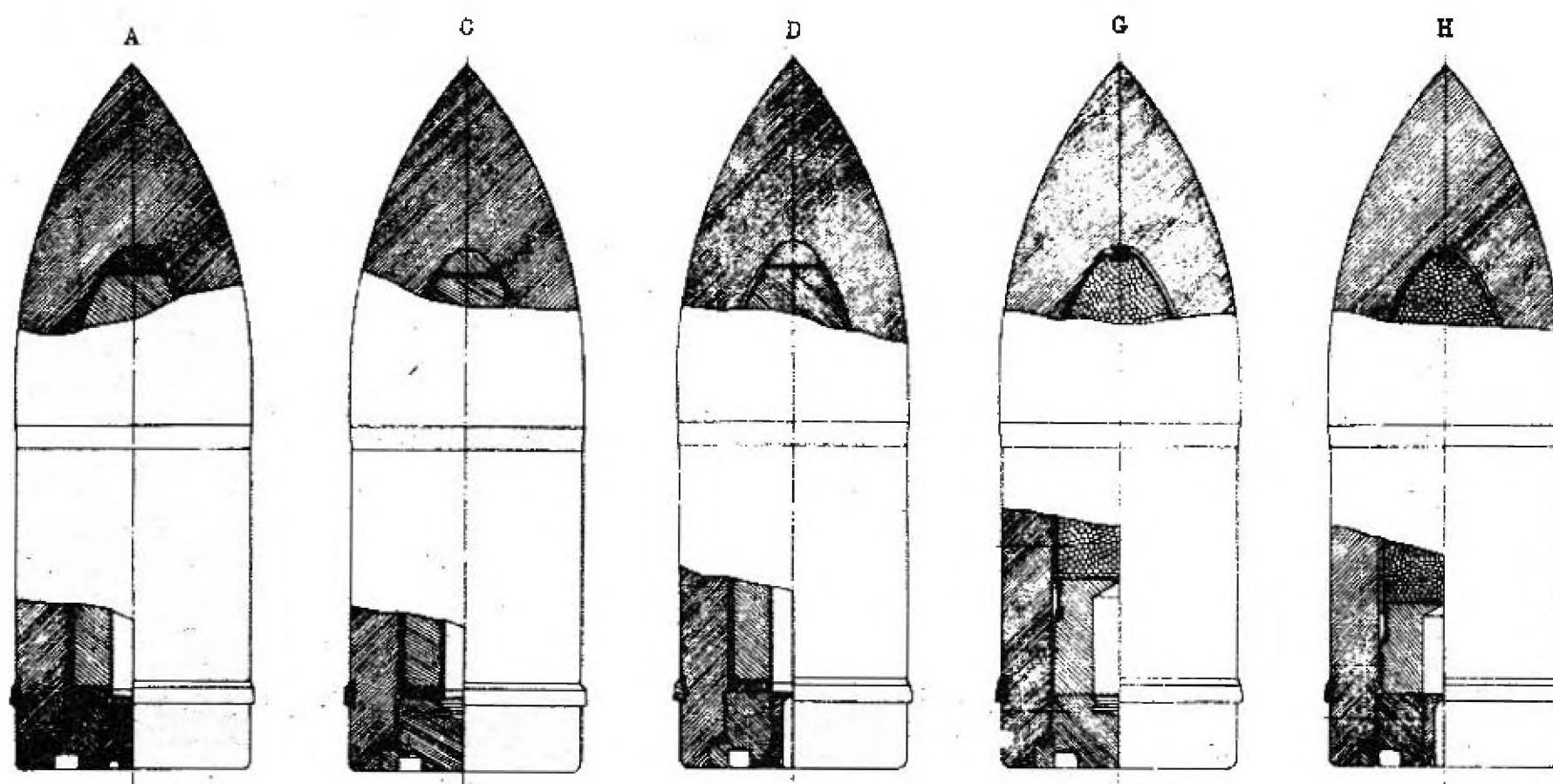
Projectile Weight: 36.000 kg

Weight and Type of Filling: (see Remarks)

Fuzing: A - 5th Year Type Small Base (Howitzer-Mortar)
A - Type 88 Small Base (Howitzer-Mortar)
C&G - Flush Base (Modification 2)
D&H - Type 88 Mk. 2 Small Base
(Modification 2)

Guns Used In: Type 38 15 cm Howitzer
4th Year Type 15 cm Howitzer
Steel 15 cm Mortar

Remarks: Fuzing of projectiles D&H also given as Type 38
Small Mk. 2 Base (Modification 2)
Filling: A,C,D: Picric acid - 1.53 kg
G,H : Fine grain powder - 1.25 kg
Filling of A & D also given as CHAOYAKU
One source gives filling of A,D as Picric acid,
G as Fine grain powder. Weight: A - 1.68 kg,
D - 1.65 kg, G - .76 kg
Equipment Class - 2



Diameter: 150 mm

Designation: Modified Cast Iron AP-HE Projectile
HE (~), CHI (ち)

Color and Markings:

Projectile Length: 427 mm

Projectile Length With Fuze:

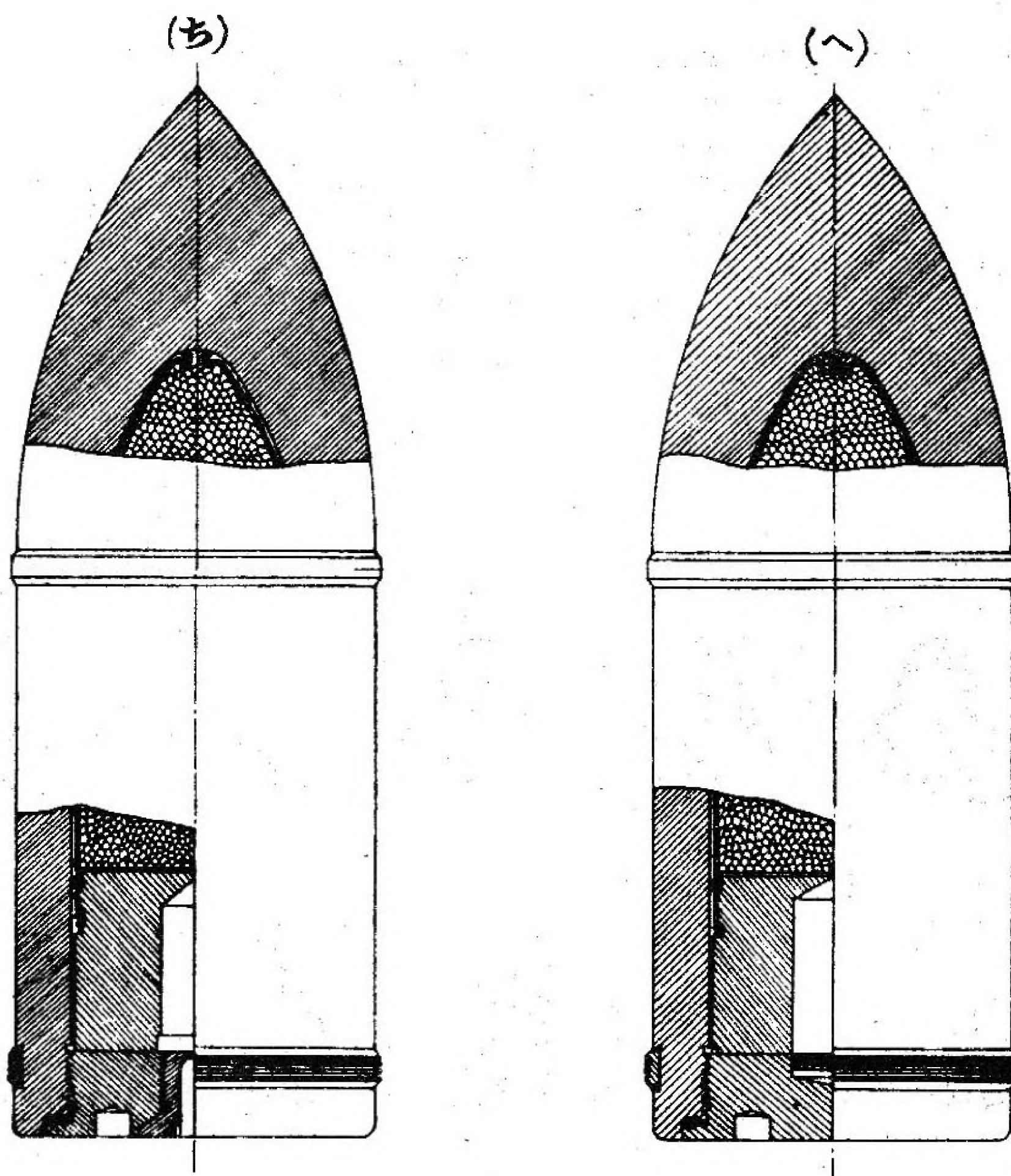
Projectile Weight: 36.0 kg

Weight and Type of Filling: Fine grain powder - 1.75 kg

Fuzing: HE: Flush Base (Modification 2)
CHI: Type 38 Mk. 2 Small Base (Modification 2)

Guns Used In: Type 38 15 cm Howitzer

Remarks:



Diameter: 150 mm

Designation: Cast Iron AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88 Base (Modification 2)

Guns Used In: 15 cm Artillery Mortar

Remarks: Screw type friction primer

Diameter: 150 mm

Designation: AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 583.5 mm

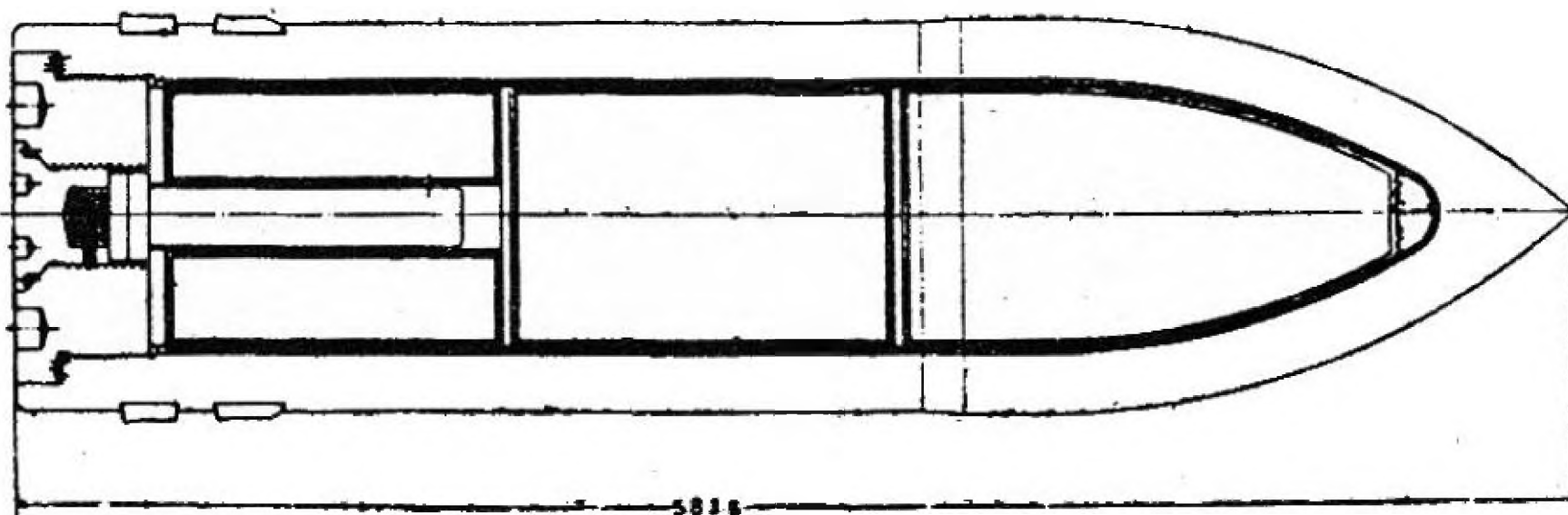
Projectile Weight: 44.910 kg

Weight and Type of Filling: TNT - 4.800 kg

Fuzing: Type 88 Small Base (Gun)

Guns Used In: Type 90 15 cm Gun
7th Year Type 15 cm Gun
SANKO (TN: 参克) Type Barbette
15 cm Mtn Gun
Type 45 15 cm Gun
Type 89 15 cm Gun

Remarks: ONAYAKU, TNT and Picric acid listed as a
substitute filler
Equipment Class - 1



JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 150 mm

Designation: AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 445.7 mm

Projectile Weight: 36.000 kg

Weight and Type of Filling: CHAŌYAKU 2.600 kg

Fuzing: Type 88 Small Base (Howitzer-Mortar)
5th Year Type Small Base (Modified)
(Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer
Improved 4th Year Type 15 cm Howitzer
Steel 15 cm Mortar

Remarks: For 4th Year Type Howitzer, filling may be TNT

Only Improved 4th Year Type Howitzer listed as
using both Type 88 and 5th Year Type fuzes; the
others listed only for Type 88.

Equipment Class - 2

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 150 mm

Designation: AP-HE Projectile A

Color and Markings:

Projectile Length: 445.7 mm

Projectile Length With Fuze:

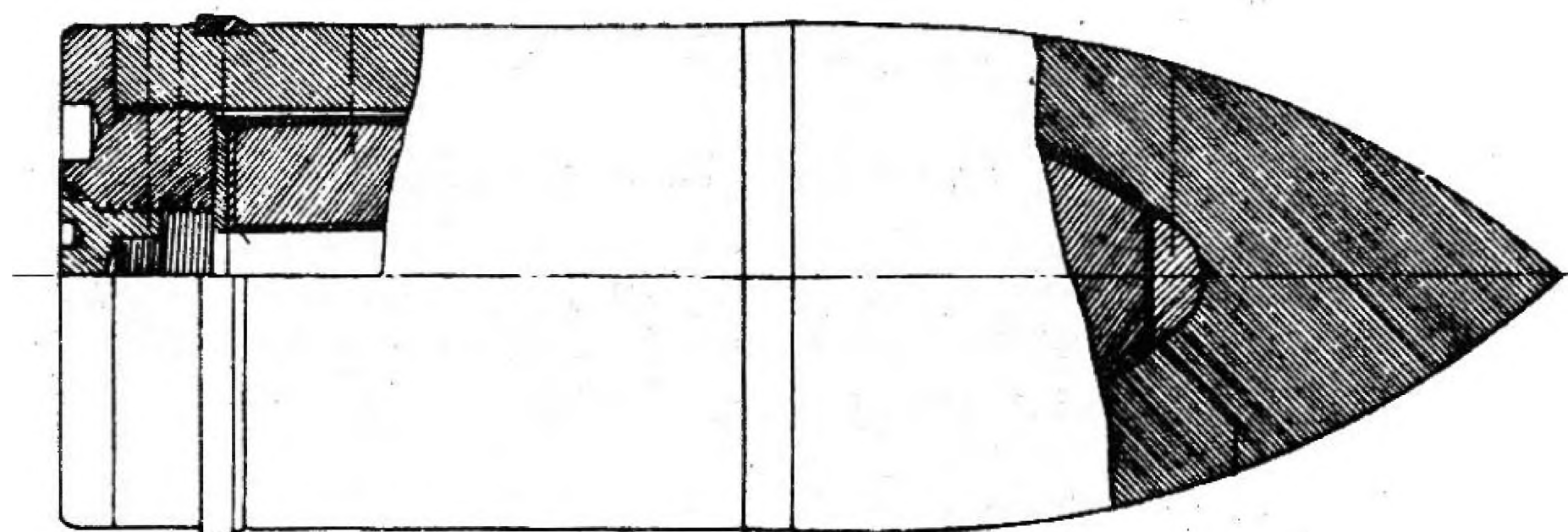
Projectile Weight: 36.000 kg

Weight and Type of Filling: Picric acid - 2.600 kg

Fuzing: 5th Year Type Small Base (Howitzer-Mortar)

Guns Used In: Type 38 15 cm Howitzer

Remarks:



Diameter: 150 mm

Designation: AP-HE Projectile A

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 41.000 kg

Weight and Type of Filling: Picric acid

Fuzing: Type 88 Small Base (Gun)

Guns Used In: SHIKA (TN: Schneider-Creusot ?) 15 cm
Rapid Fire Gun

Remarks:

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 150 mm

Designation: Type 95 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 445.7 mm

Projectile Weight: 35.880 kg

Weight and Type of Filling: TNT - 2.51 kg

Fuzing: Type 95 Medium AP Base (Howitzer-mortar)

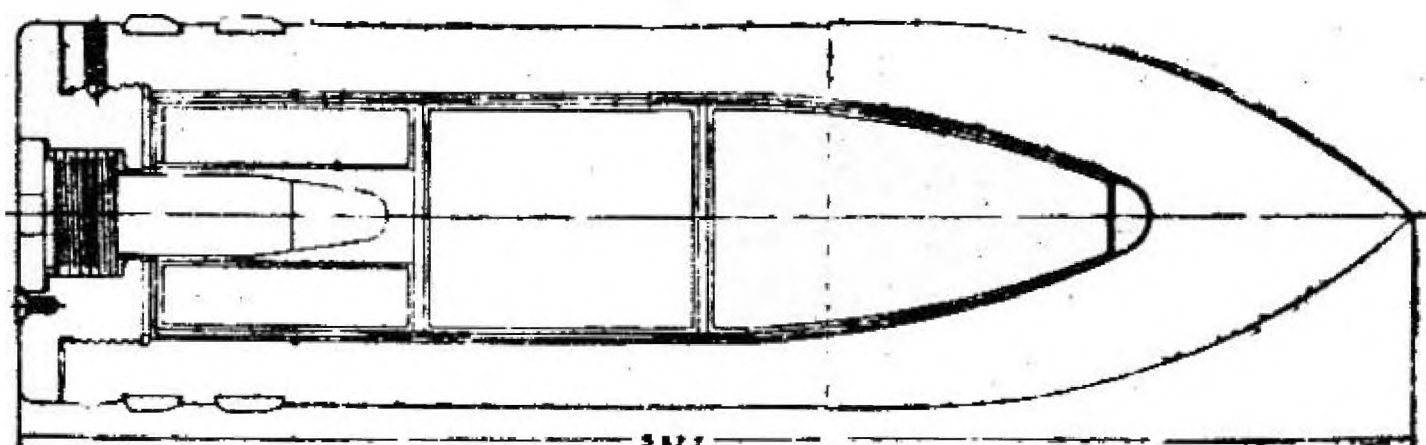
Guns Used In: 4th Year Type 15 cm Howitzer

Type 38 15 cm Howitzer

Type 96 15 cm Howitzer

Steel 15 cm Mortar

Remarks: Equipment Class - 1 for all weapons except
Type 96, for which it is Class 4



Diameter: 150 mm

Designation: Type 95 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 532.7 mm

Projectile Weight: 45.880 kg

Weight and Type of Filling: CNAYAKU

Fuzing: Type 95 Medium AP Base (Gun)

Guns Used In: Type 45 15 cm Gun 7th Year Type 15 cm Gun

Type 90 15 cm Gun

Type 89 15 cm Gun

Remarks: Equipment Class - 1

Diameter: 150 mm

Designation: Shrapnel Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 483.4 mm

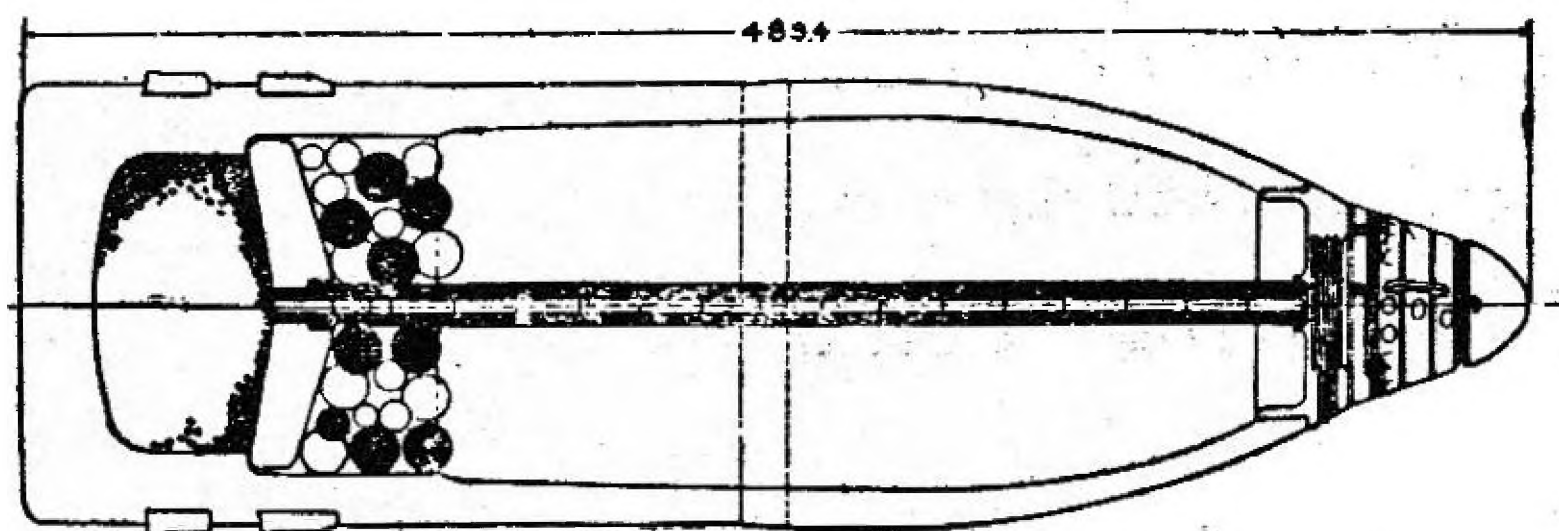
Projectile Weight: 44.900 kg

Weight and Type of Filling: Fine grain powder - 380 gm

Fuzing: 5th Year Type Combination (Modified) (Gun)

<i>Guns Used In:</i>	Type 89	15 cm Gun	7th Year Type	15 cm Gun
	Type 45	15 cm Gun	Type 90	15 cm Gun

Remarks: Equipment Class - 1



Diameter: 150 mm

Designation: Shrapnel Projectile A,B

Color and Markings:

Projectile Length: 380 mm

Projectile Length With Fuze: A - 438.2 mm
B - 430.0 mm

Projectile Weight: 36.0 kg

Weight and Type of Filling: Fine grain powder - 380 gm

Fuzing:

A&B: 5th Year Type Combination (Modified) (Howitzer-Mortar)

B: Type 88 35 Second Combination (Modified)

Guns Used In: Type 38 15 cm Howitzer Steel 15 cm Mortar

Type 96 15 cm Howitzer

4th Year Type 15 cm Howitzer

Remarks: Approximately 1050 pellets; weight of one
approximately 16 gm

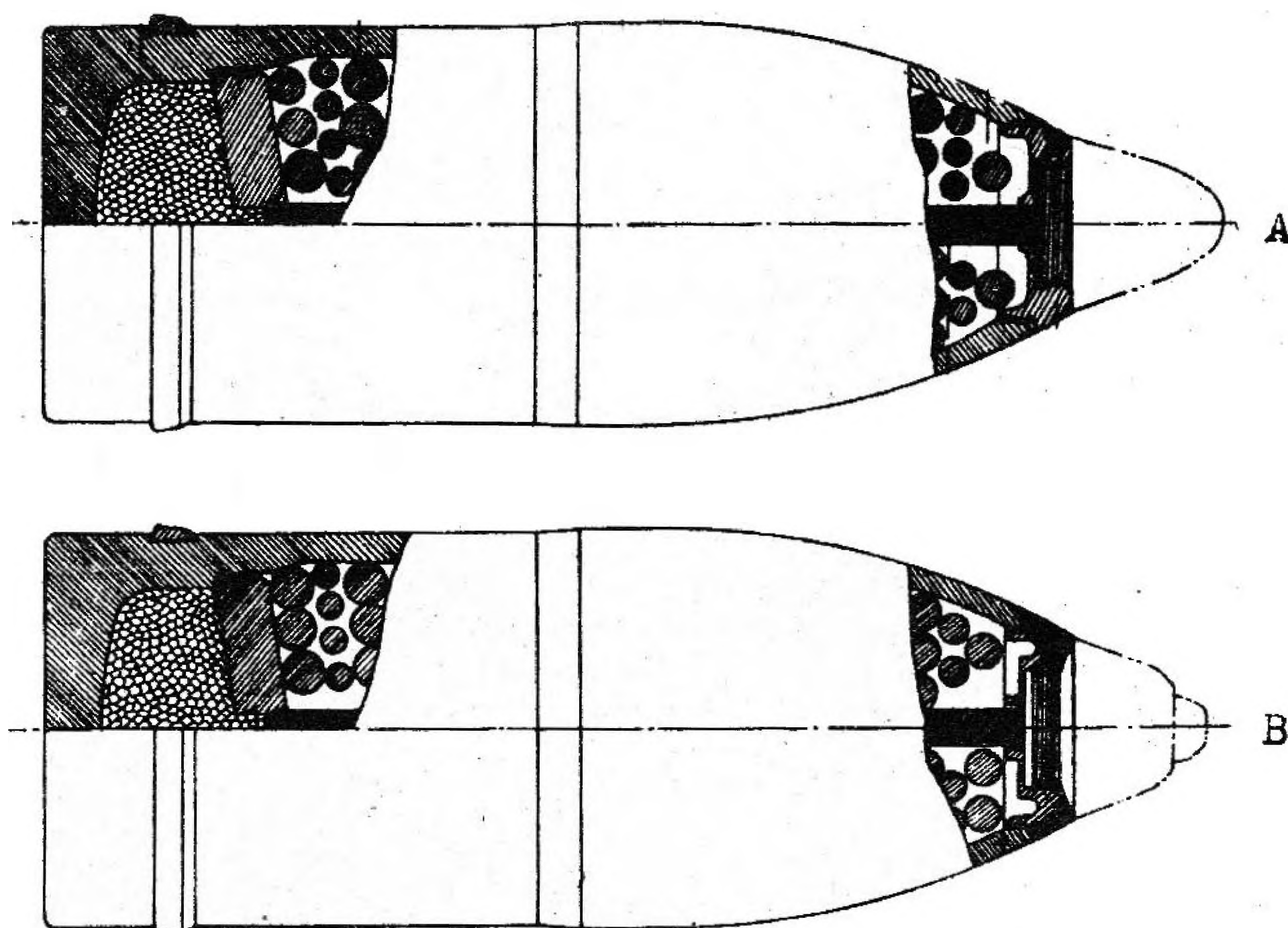
Type of metal - No. 1 Brass

Length of Projectile A also given as 436.7 mm;

Projectile B as either 430 or 436

Equipment Class - 1 for Type 38 and 4th Year Type

Equipment Class - 4 for Type 96



Diameter: 150 mm

Designation: HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88 Point Detonating
Inf Mortar (Modified)

Guns Used In: 15 cm Artillery Mortar
Type 93 15 cm Inf Mortar

Remarks: When used with 15 cm Artillery Mortar, projectile
has screw type friction primer
When used with Type 93 Inf Mortar, projectile has
Mk. 2 Medium 3 cartridge case percussion primer

Diameter: 150 mm

Designation: HE Projectile A,B,C

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 51.000 kg

Weight and Type of Filling: Fine grain powder

Fuzing: A - Improved Krupp Type Impact, Modification 1
B - Type 88 Point Detonating
C - Improved Krupp Type Impact, Modification 1,2

Guns Used In: Krupp Type 15 cm 35 Cal Gun

Remarks:

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 150 mm

Designation: Type 92 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 621.88 mm

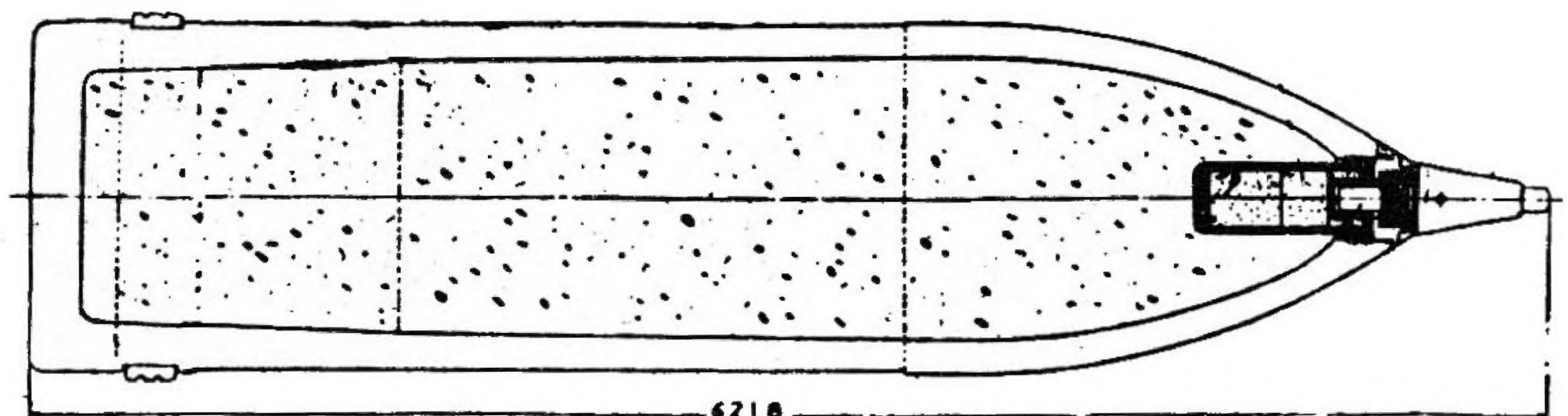
Projectile Weight: 36.0 kg

Weight and Type of Filling: TNT - 7.670 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Improved 4th Year Type 15 cm Howitzer
4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer
Steel 15 cm Artillery Mortar
Type 96 15 cm Howitzer

Remarks: Class A 40 gm booster
Effective Radius - 35 meters
Type 96 & Improved 4th Year Type Howitzers
use Type 40 cartridge case primer
Equipment Class - 1 for all weapons except
Type 96, for which it is Class 4
ANGAYAKU may be substituted for the TNT, &
the characters are painted in white on
the projectile. The weight then becomes
35.6 kg and the SHOU 40 gm booster tube
is used.



JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 150 mm

Designation: Type 92 HE Projectile, Modif. 1

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Improved 4th Year Type 15 cm Howitzer

Remarks:

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 150 mm

Designation: Type 93 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 654.8 mm

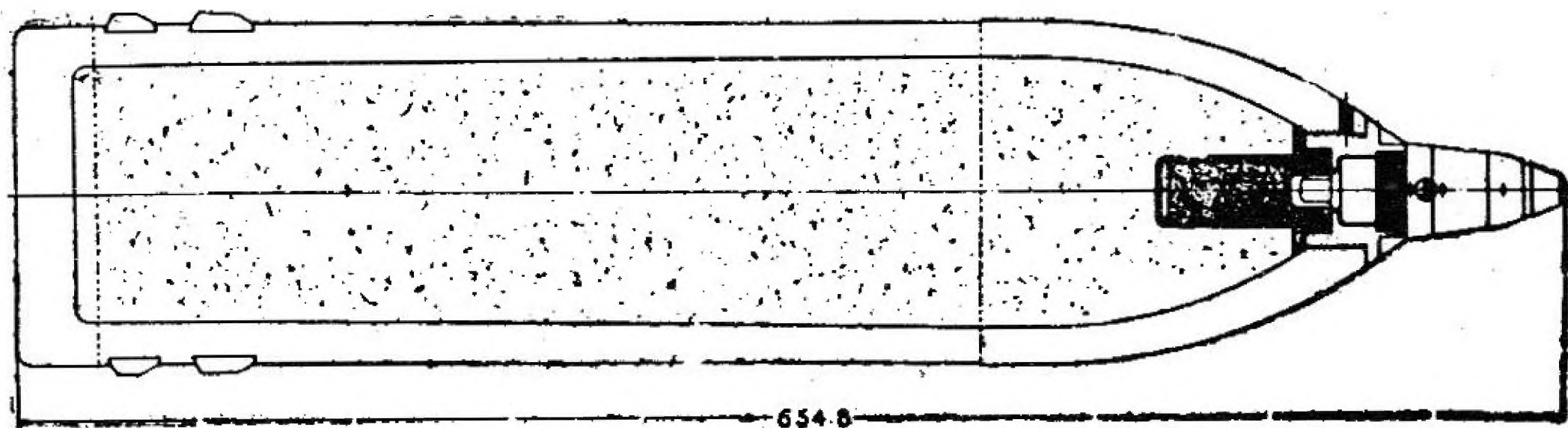
Projectile Weight: 40.600 kg

Weight and Type of Filling: TNT - 4.770 kg

Fuzing: Type 90 Instantaneous-Short Delay (Gun)

Guns Used In: Type 89 15 cm Gun Type 90 15 cm Gun
Type 45 15 cm Gun
7th Year Type 15 cm Gun

Remarks: ANGAYAKU may be substituted for the TNT. In this event the total weight is given as 39.990 kg, the characters are painted in white on the projectile and the SHOU 40 gm booster is used.
Equipment Class - 1
Class A 40 gm booster
Effective Radius - 60 meters



Diameter: 150 mm

Designation: 10th Year Type Semi-steel HE Projectile

Color and Markings:

Projectile Length: 487.5 mm

Projectile Length With Fuze: 544.3 mm

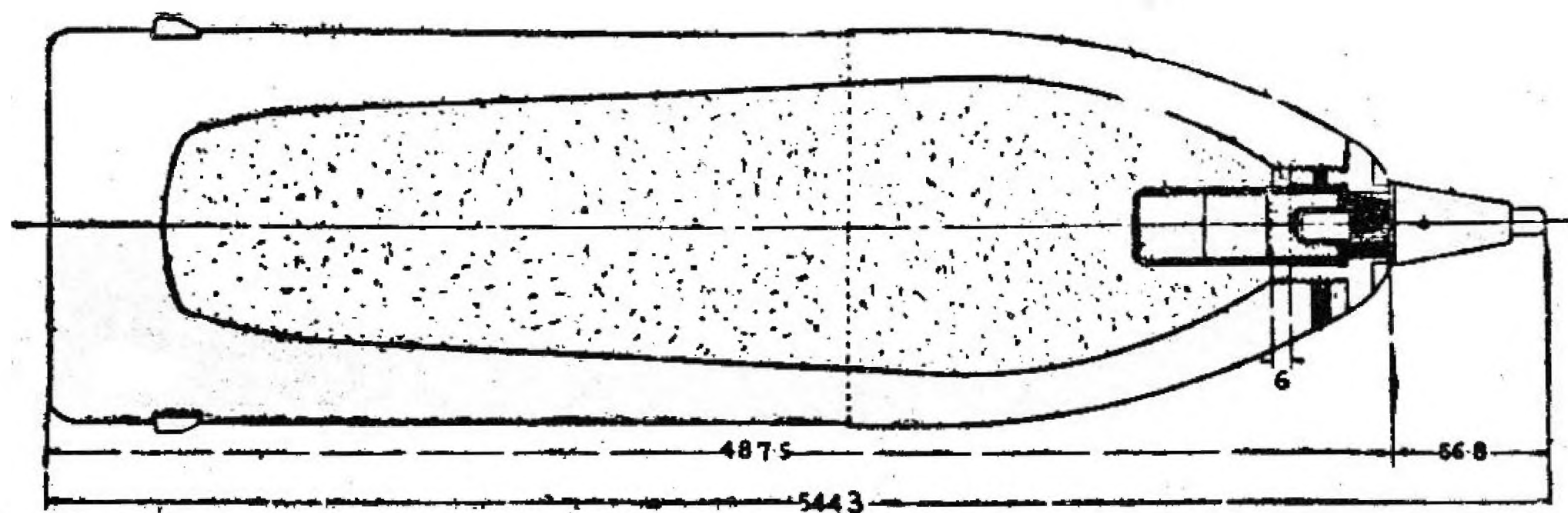
Projectile Weight: 36.000 kg

Weight and Type of Filling: TNT - 4.550 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Steel 15 cm Mortar
4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer

Remarks: Picric acid booster
Equipment Class - 2



Diameter: 150 mm

Designation: 11th Year Type HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 649.6 mm

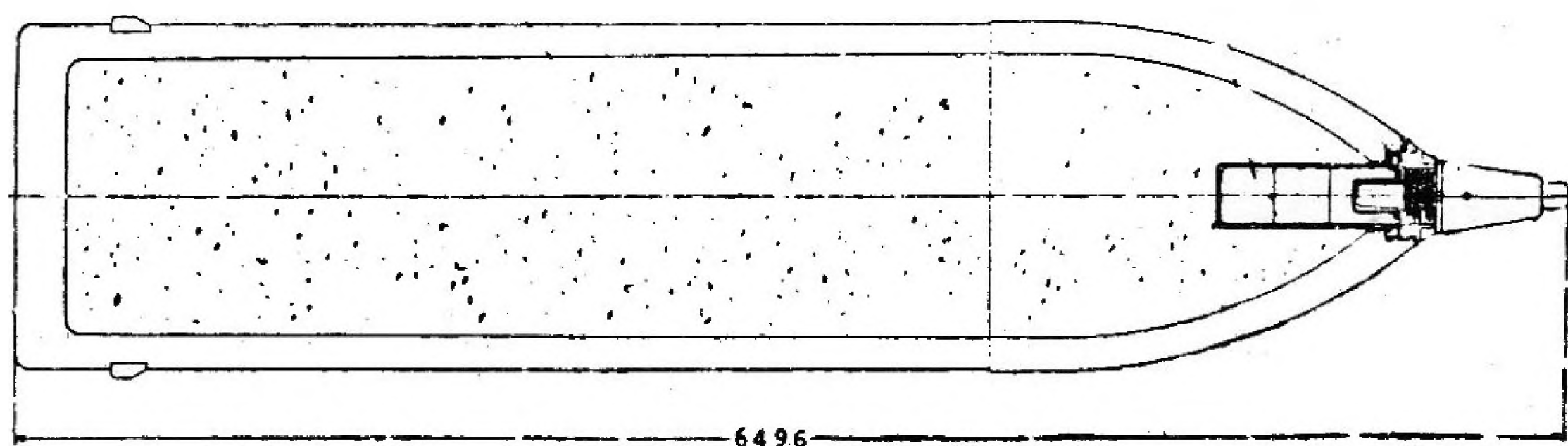
Projectile Weight: 36.400 kg

Weight and Type of Filling: TNT, Amatol - 8.800 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer
Type 38 15 cm Howitzer
Improved 4th Year Type 15 cm Howitzer
Steel 15 cm Mortar

Remarks: Equipment Class - 2
Picric acid booster



Diameter: 150 mm

Designation: Type 96 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 25.650 kg

Weight and Type of Filling: TNT - 5.865 kg

Fuzing: Type 93 Instantaneous-Short Delay (Mortar)

Guns Used In: Type 96 Medium Mortar

Remarks: Equipment Class - 1

Diameter: 150 mm

Designation: Type 96 HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 39.480 kg

Weight and Type of Filling: TNT

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Type 96 15 cm Howitzer

Remarks: HEINEIYAKU, SHOTOYAKU, and ANGAYAKU are listed
as substitute fillers
Equipment Class - 4

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 150 mm

Designation: Type 97 HE Projectile Modified

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 35.800 kg

Weight and Type of Filling: TNT

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: Steel 15 cm Mortar

Remarks:

Diameter: 150 mm

Designation: Type 90 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 613.0 mm

Projectile Weight: 32.74 kg

Weight and Type of Filling: TNT, Amatol - 6.40 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer

Remarks:

Diameter: 150 mm

Designation: Type 92 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 636.8 mm

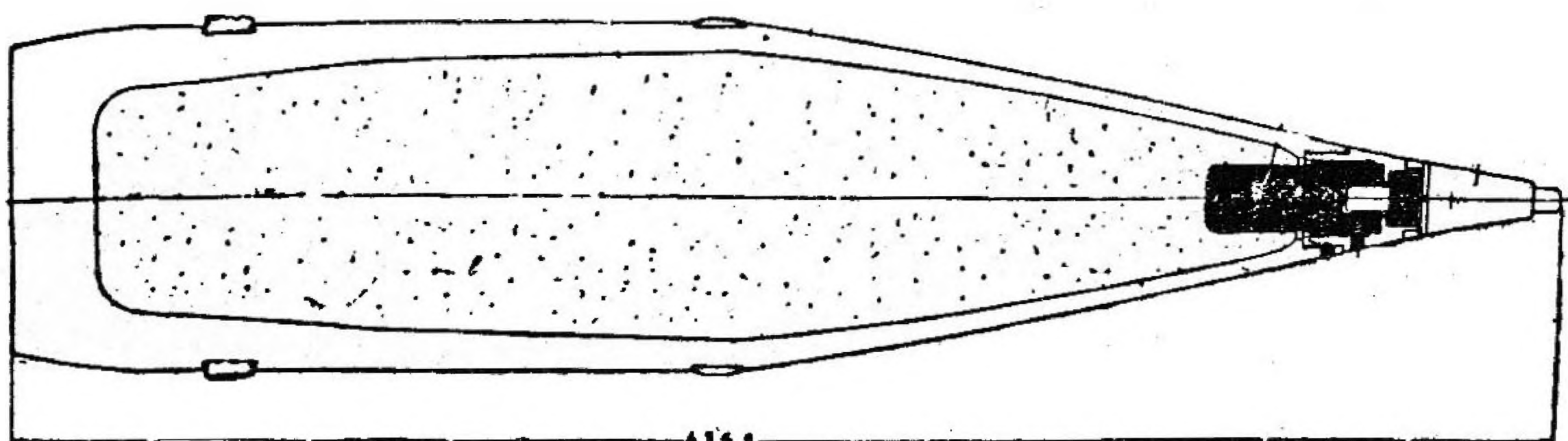
Projectile Weight: 31.100 kg

Weight and Type of Filling: TNT - 6.150 kg

Fuzing: Type 88 Instantaneous (Howitzer-Mortar)
Type 88 Short Delay (Howitzer-Mortar)

Guns Used In: 4th Year Type 15 cm Howitzer
Type 96 15 cm Howitzer

Remarks: Effective Radius - 30 meters
Class A 40 gm booster tube
Equipment Class - 1 for 4th Year Type
Equipment Class - 4 for Type 96



Diameter: 150 mm

Designation: Type 93 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 685.0 mm

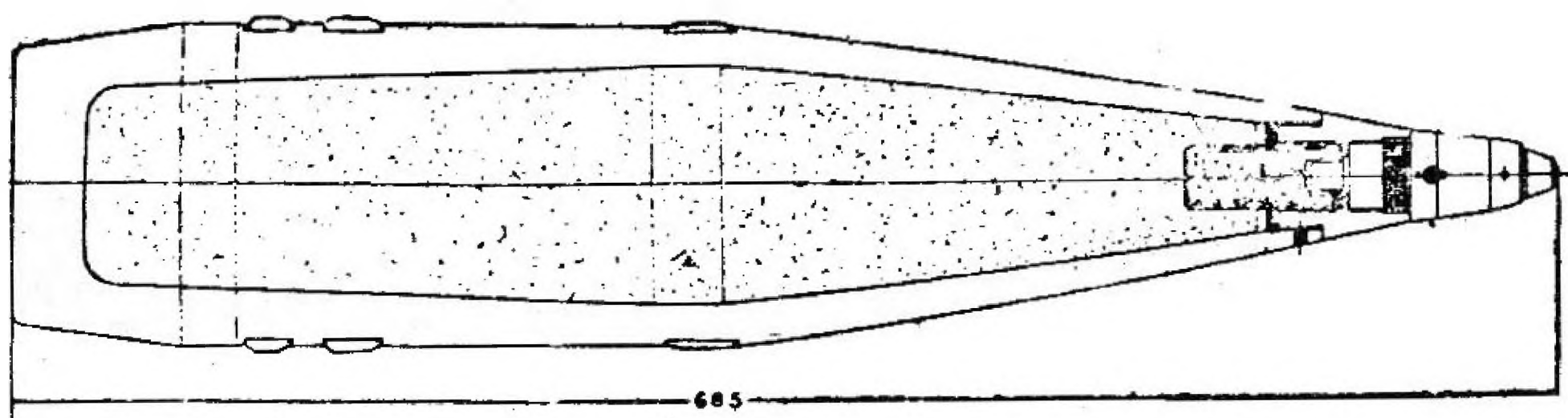
Projectile Weight: 40.200 kg

Weight and Type of Filling: TNT - 5.470 kg

Fuzing: Type 90 Instantaneous-Short Delay (Gun)

Guns Used In: Type 89 15 cm Gun Type 90 15 cm Gun
 Type 45 15 cm Gun
 7th Year Type 15 cm Gun

Remarks: Equipment Class - 1
 Class A 40 gm booster tube
 Effective Radius - 40 meters



JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 150 mm

Designation: Type 96 Long-pointed Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 50.470 kg

Weight and Type of Filling: TNT, HEINEIYAKU

Fuzing: Type 98 Instantaneous-Short Delay (Gun)

Guns Used In: Type 96 15 cm Gun

Remarks: Equipment Class - 1

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 200 mm

Designation: Experimental 20 cm Rocket

Color and Markings:

Projectile Length:

Projectile Length With Fuze: 1085 mm

Projectile Weight: 90 kg

Weight and Type of Filling: Type 91 Explosive

Fuzing: 20 cm Rocket (Percussion)

Guns Used In: Experimental 20 cm Rocket Gun

Remarks: Sources in conflict as to whether filler weight
is 16.700 kg or 15.700 kg
Motor body contains 8.4 kg of propellant
Combustion time - 1.6 sec.

JAPANESE PROJECTILES.
CINCPAC-CINCPA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 240 mm

Designation: Type 88 Substitute AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 199.90 kg

Weight and Type of Filling:

Fuzing: Type 88 Large Short Delay Base Fuze for Black
Powder (Large Howitzer-Mortar)

Guns Used In: Type 45 24 cm Howitzer

Remarks: Equipment Class - 4

Diameter: 240 mm

Designation: AP-HE Projectile

Color and Markings: Red nose, yellow central band, white
band above rotating band

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 200.0 kg

Weight and Type of Filling: TNT - 12.930 kg

Fuzing: Type 88 Large Short Delay Base (Large Howitzer-
Mortar)

Guns Used In: Type 45 24 cm Howitzer

Remarks: Equipment Class - 1
Picric acid also given for the filler

Diameter: 240 mm

Designation: Type 95 AP-HE Projectile A, B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 198.00 kg

Weight and Type of Filling: TNT - 11.620 kg

Fuzing: Type 93 Mk. 3 Large AP Base (Howitzer)

Guns Used In: Type 45 24 cm Howitzer

Remarks: Equipment Class - 1

Diameter: 280 mm

Designation: Chilled Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 217.000 kg

Weight and Type of Filling: Fine grain powder - 9.500 kg

Fuzing: Type 88 Seacoast Gun Base (Short Delay)

Guns Used In: Krupp Type 28 cm Howitzer
28 cm Howitzer

Remarks:

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 280 mm

Designation: Chilled AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 224.000 kg

Weight and Type of Filling: CHAŌYAKU - 14.50 kg

Fuzing: Type 88 Large Short Delay Base (28 cm Howitzer)

Guns Used In: 28 cm Howitzer

Remarks:

Diameter: 280 mm

Designation: Type 98 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: TNT

Fuzing: Type 95 Mk. 3 Large AP Base (Mortar)

Guns Used In: 28 cm Howitzer

Remarks:

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: Possibly 300 mm

Designation: Experimental AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Small Base (Howitzer)

Guns Used In: 14th Year Type Heavy Inf Mortar

Remarks: Type 40 Cartridge Case Primer

Diameter: Possibly 300 mm

Designation: Type 95 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 95 Mk. 2 Large AP Base (Mortar)

Guns Used In: Type 96 Heavy Mortar

Remarks:

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: Possibly 300 mm

Designation: 14th Year Type Projectile, Modif. 1

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Delay Base (Modified)

Guns Used In: 14th Year Type Heavy Inf Mortar

Remarks: Type 40 Cartridge Case Primer

Diameter: Possibly 300 mm

Designation: 14th Year Type HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Delay Base (Modified)

Guns Used In: 14th Year Type Heavy Inf Mortar

Remarks: Type 40 Cartridge Case Primer

Diameter: 300 mm

Designation: Type 88 Substitute AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88 Large Short Delay Base Fuze for Black Powder (Large Howitzer-Mortar)

Guns Used In: 7th Year Type 30 cm Short Howitzer

Remarks: Equipment Class - 4

Diameter: 300 mm

Designation: AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 400.000 kg

Weight and Type of Filling: CHAC̄YAKU 40.000 kg

Fuzing: Type 88 Large Short Delay Base (Large Howitzer-Mortar)

Guns Used In: 7th Year Type 30 cm Short Howitzer

Remarks: Equipment Class - 1

Diameter: 300 mm

Designation: Type 90 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 400.000 kg

Weight and Type of Filling: TNT - 22.500 kg

Fuzing: Type 95 Mk. 2 AP Base (Howitzer)

Guns Used In: 7th Year Type 30 cm Short Howitzer

Remarks: Equipment Class - 1

Diameter: 300 mm

Designation: Type 95 AP-HE Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 296.000 kg

Weight and Type of Filling: TNT - 20.560 kg

Fuzing: Type 95 Mk. 2 AP Base (Howitzer)

Guns Used In: 7th Year Type 30 cm Short Howitzer

Remarks: Equipment Class - 1

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 300 mm

Designation: Type 95 AP-HE Projectile A, B, C

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight: 298.440 kg

Weight and Type of Filling: TNT - 22.400 kg

Fuzing: Type 95 Mk. 2 Large AP Base (Howitzer)

Guns Used In: 7th Year Type 30 cm Long Howitzer
7th Year Type 30 cm Short Howitzer

Remarks:

Diameter: 400 mm

Designation: Capped AP Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: Picric Acid

Fuzing: Type 13 Mk. 3

Guns Used In: 40 cm 45 Cal Gun

Remarks:

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

THE PROJECTILES IN THE FOLLOWING SECTION
HAVE BEEN DESIGNATED IN DOCUMENTS AS NAVAL
PROJECTILES. THIS, HOWEVER, DOES NOT PRECLUDE
CERTAIN OF THE FOREGOING PROJECTILES ALSO FROM
BEING NAVAL.

JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 50 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body

Projectile Length:

Projectile Length With Fuze:

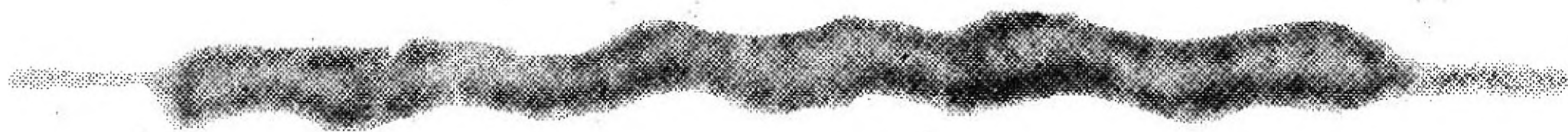
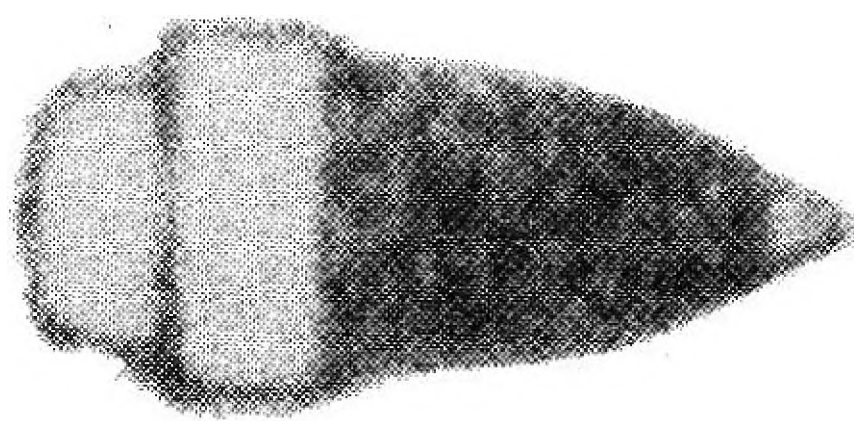
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 5 cm Short Gun
5 cm Short DP Gun

Remarks:



Diameter: 50 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body

Projectile Length:

Projectile Length With Fuze:

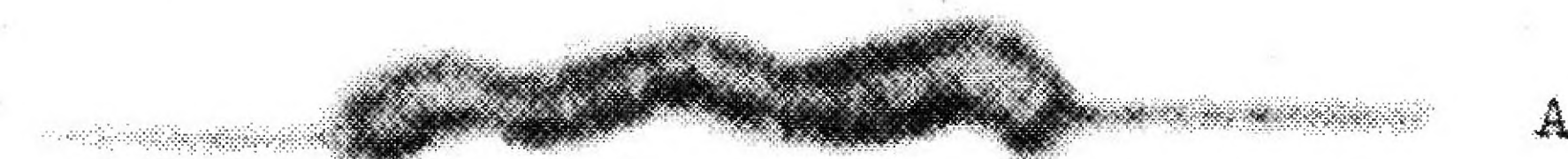
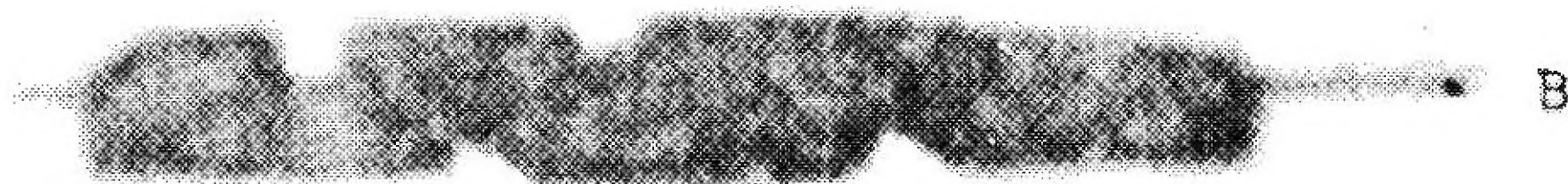
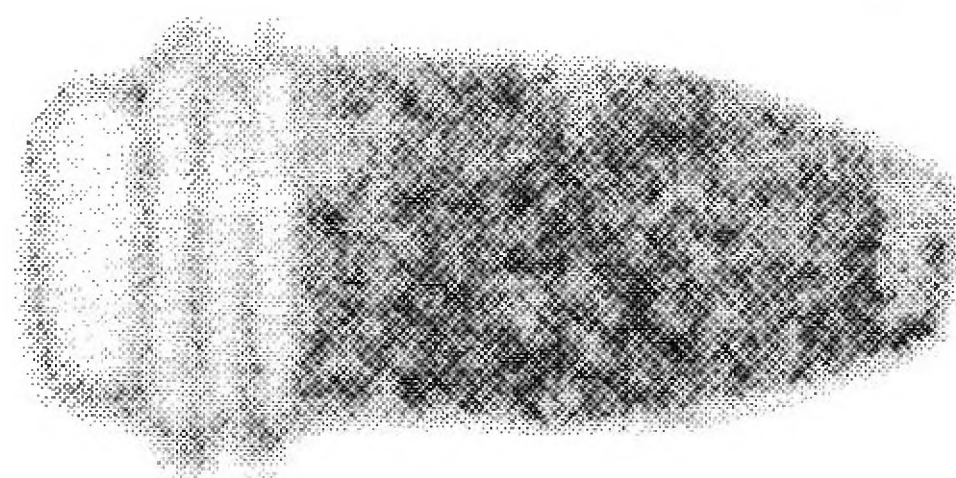
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 5 cm Gun
5 cm DP Gun

Remarks: Those with rotating band A will no longer
be manufactured



JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 50 mm

Designation: Common Projectile

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

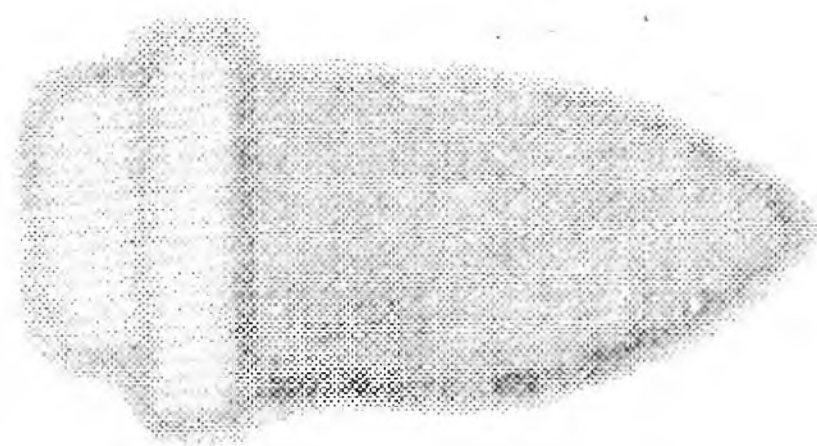
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 5 cm Short Gun
5 cm Short DP Gun

Remarks: Rotating band same as shown for Practice
projectile for these guns



Diameter: 50 mm

Designation: Common projectile

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

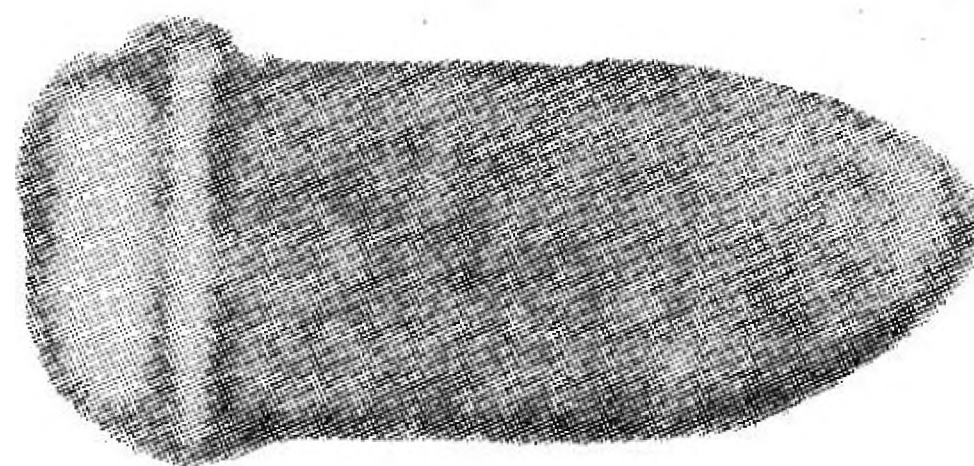
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 5 cm Gun
5 cm DP Gun

Remarks: Those with rotating band A will no longer be manufactured. Rotating bands same as shown for Practice projectile for these guns.



JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 60 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body

Projectile Length:

Projectile Length With Fuze:

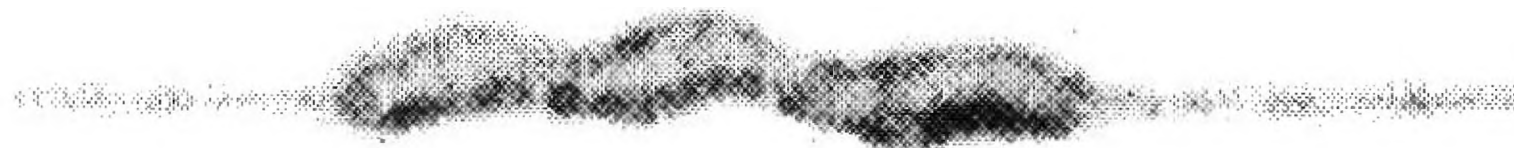
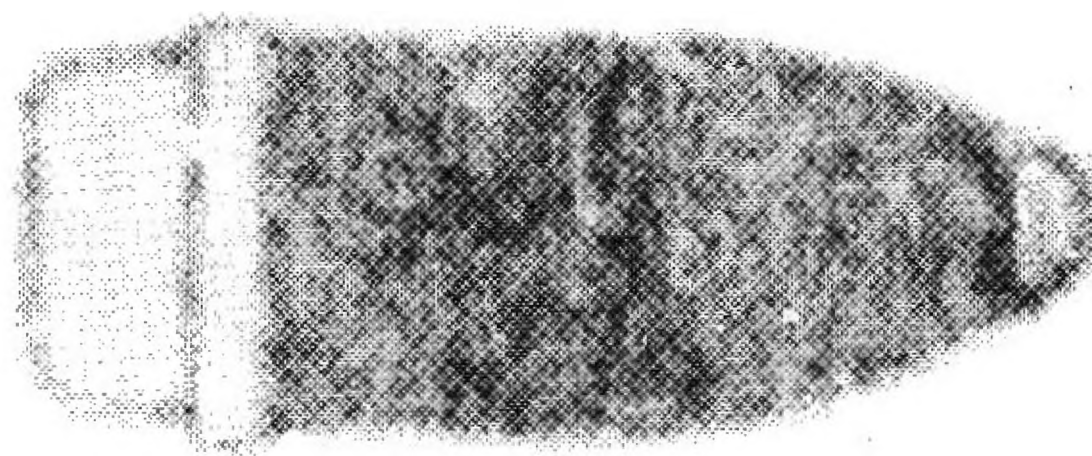
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 6 cm Gun

Remarks:



Diameter: 60 mm

Designation: Common Projectile

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

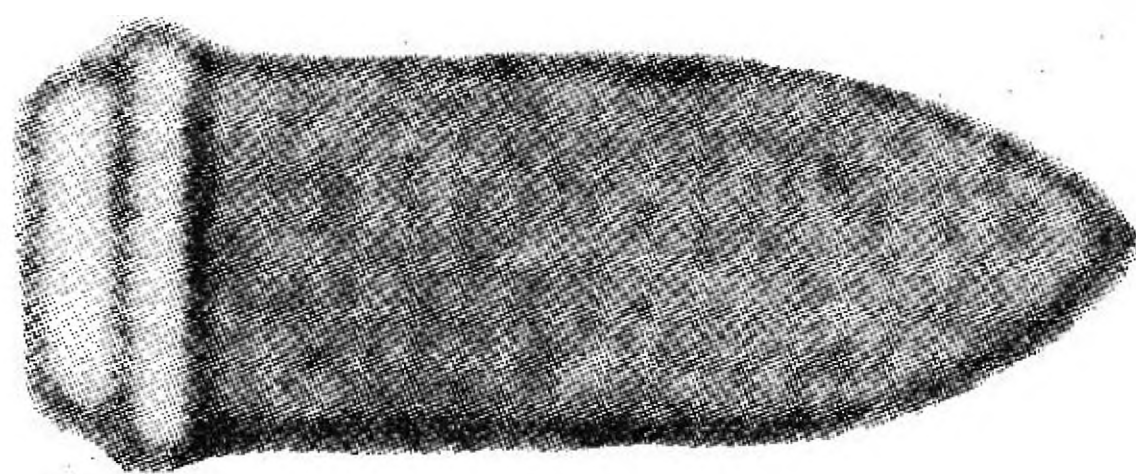
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 6 cm Gun

Remarks: Rotating band same as shown for Practice
projectile for this gun.



JAPANESE PROJECTILES.
CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 80 mm

Designation: Mk. 1 Practice Projectile

Color and Markings: Yellow nose, black body

Projectile Length:

Projectile Length With Fuze:

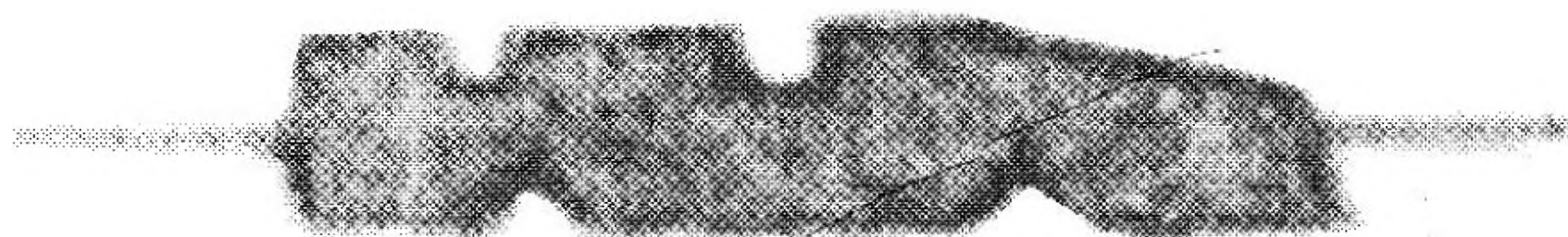
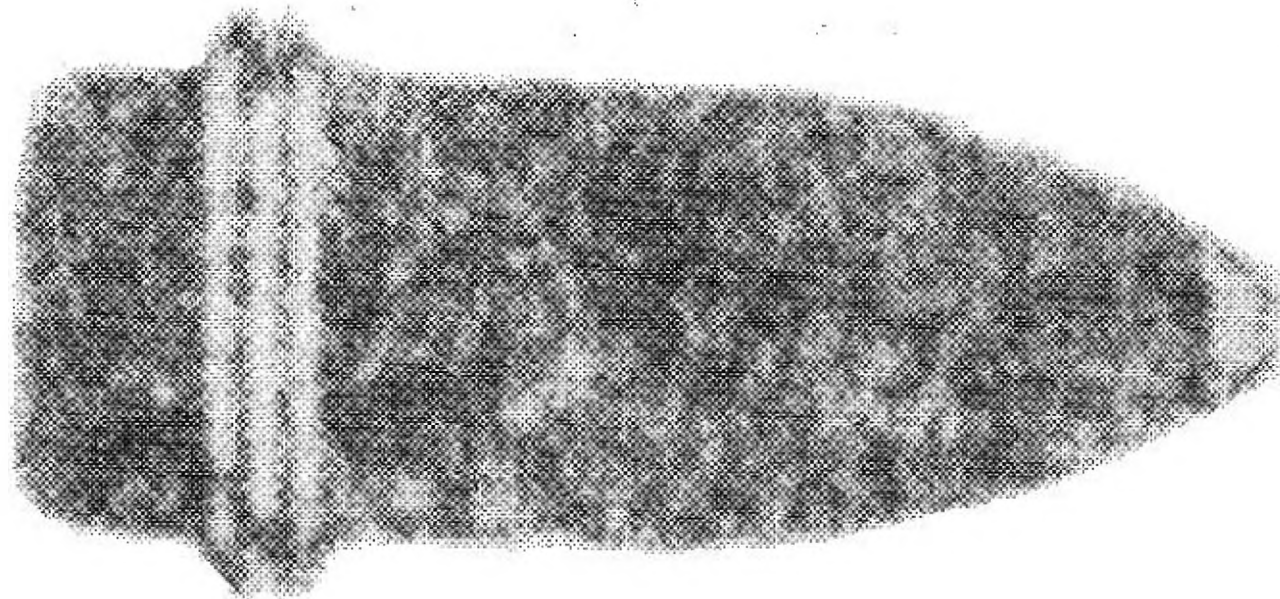
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 8 cm Gun
8 cm Short Gun

Remarks: Ogive radius of 2 caliber



Diameter: 80 mm

Designation: Mk. 1 Practice Projectile

Color and Markings: Yellow nose, rust color body

Projectile Length:

Projectile Length With Fuze:

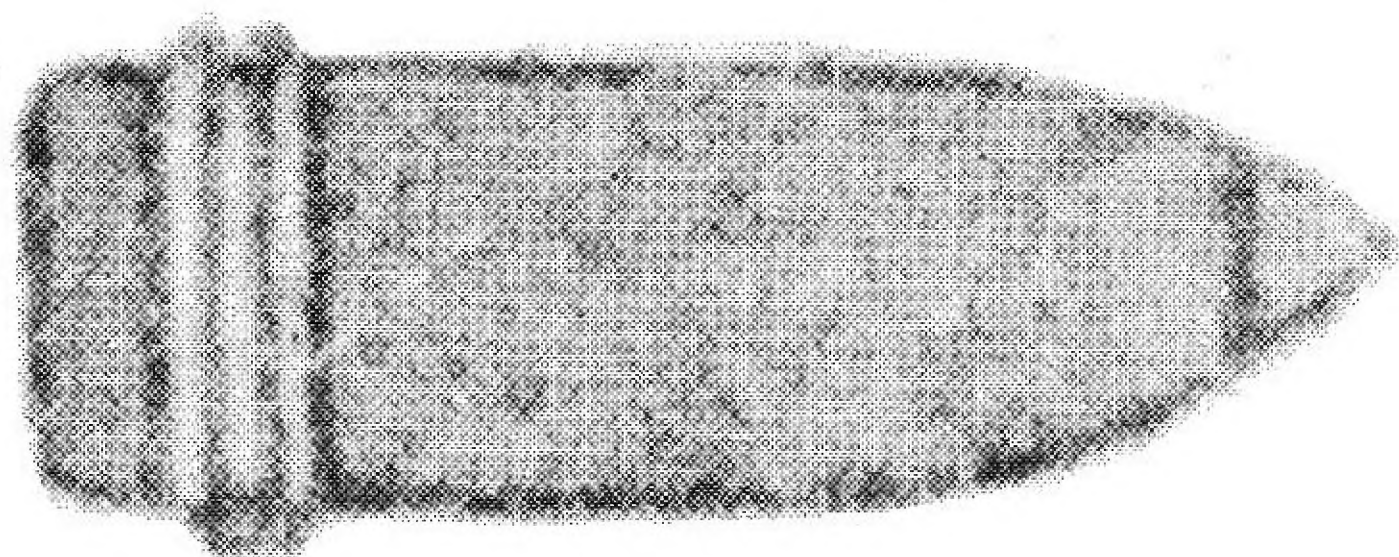
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 8 cm Gun

Remarks: Converted from Mk. 1 Common projectile for
8 cm Short Gun.
Ogive radius of 2 caliber
Rotating band same as shown for Mk. 1 Practice
Projectile for this gun.



Diameter: 80 mm

Designation: Mk. 1 Practice Projectile B

Color and Markings: Yellow nose, rust color body, (乙)
on ogive.

Projectile Length:

Projectile Length With Fuze:

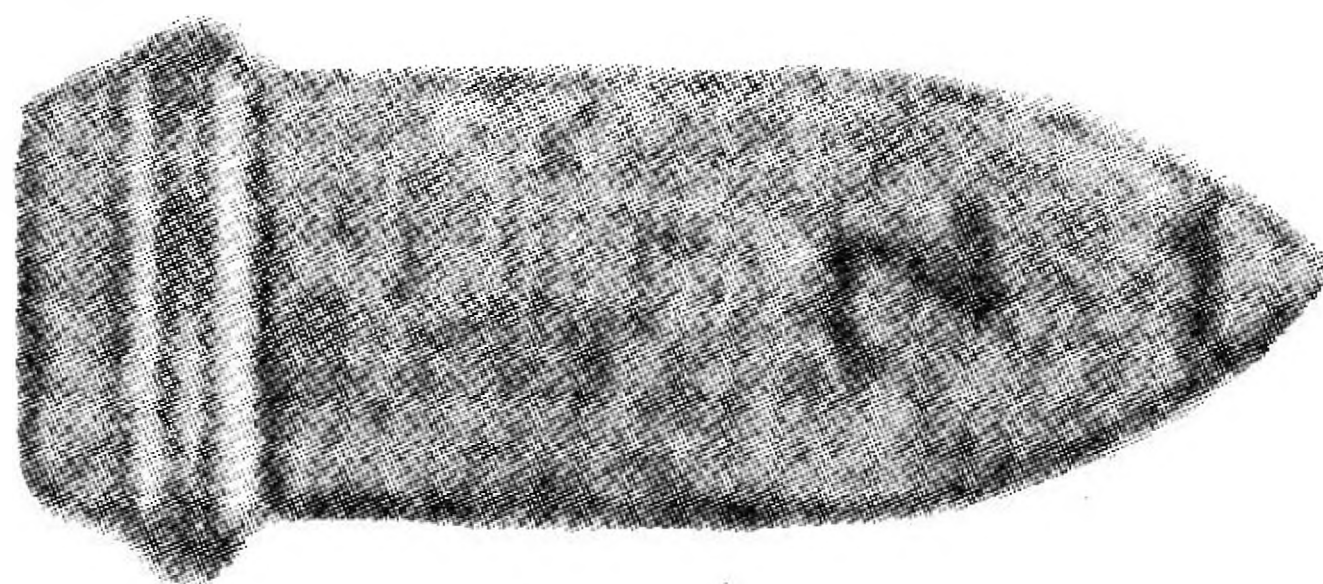
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 8 cm Gun

Remarks: Converted from Mk. 1 Common projectile B. Ogive
radius of 2 caliber. Rotating band same as shown for
Mk. 1 Practice projectile for this gun.



Diameter: 80 mm

Designation: Mk. 2 Practice Projectile

Color and Markings: Yellow nose, black body

Projectile Length:

Projectile Length With Fuze:

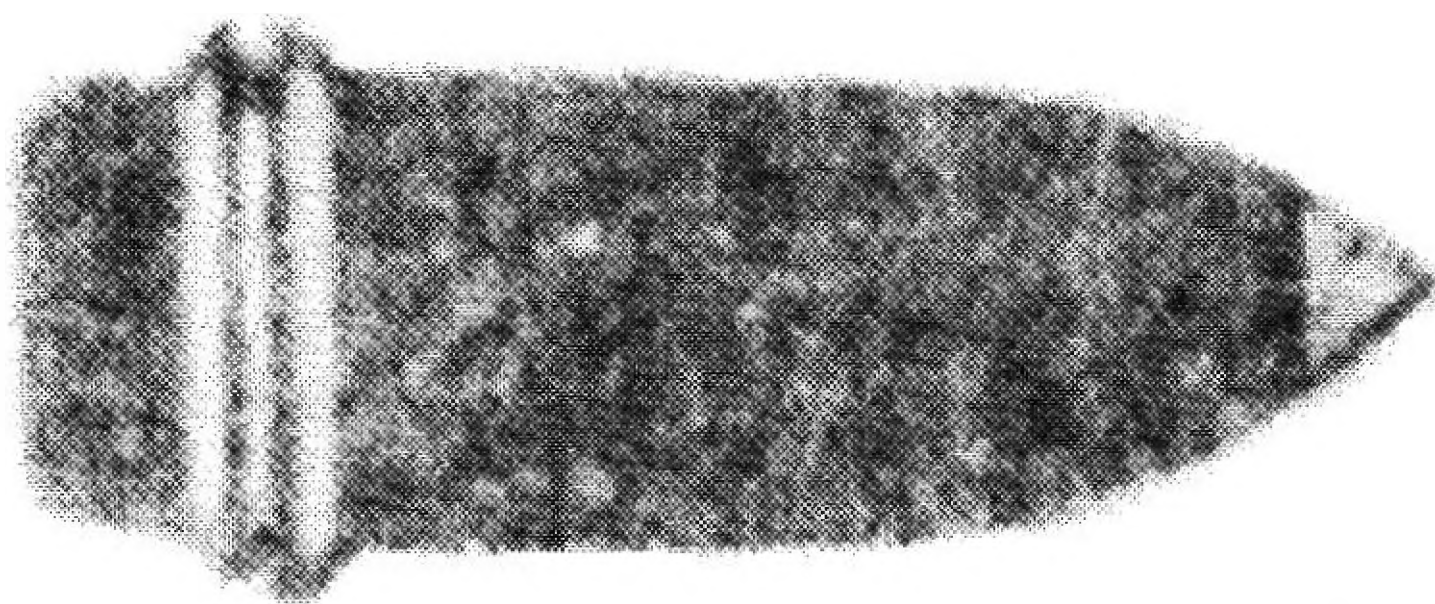
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 8 cm Gun

Remarks: Ogive radius of 6 caliber
Rotating band same as shown for Mk. 1 Practice
projectile for this gun.



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CINCPAC-CINCPOA BULLETIN 85-45.

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30 APRIL 1945.

Diameter: 80 mm

Designation: Mk. 3 Practice Projectile

Color and Markings: Yellow nose, black body

Projectile Length:

Projectile Length With Fuze:

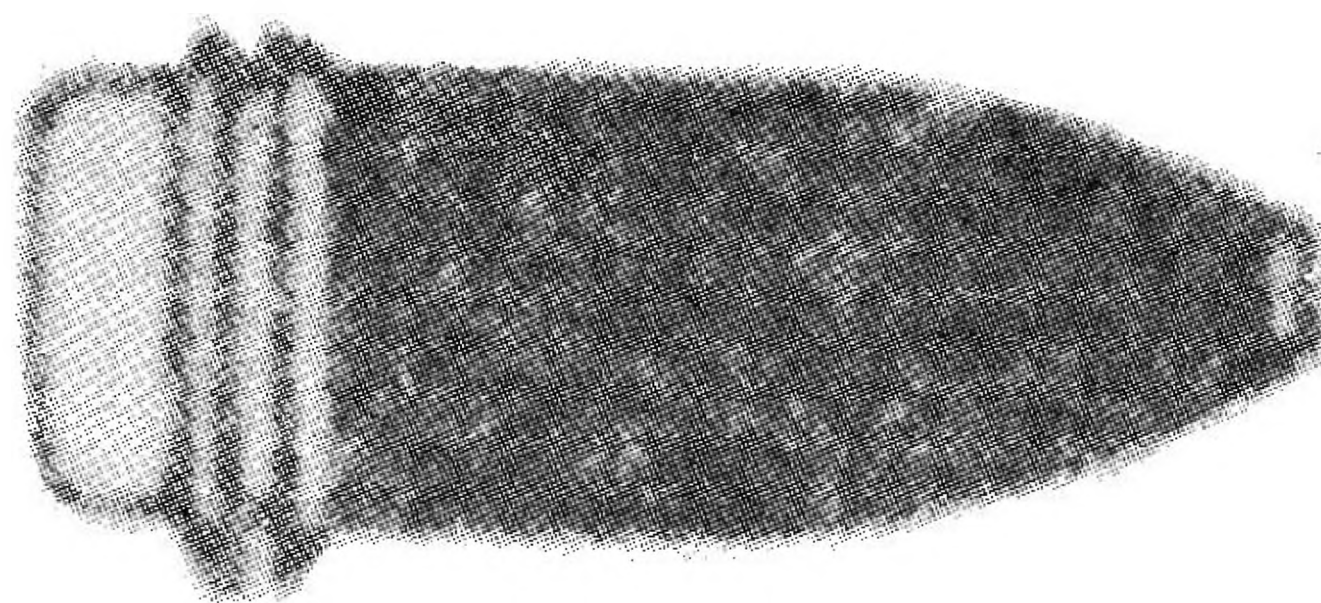
Projectile Weight:

Weight and Type of Filling:

Fuzing: For the Type 98 60 cal 8 cm DP Gun: Type 98
Time

Guns Used In: 8 cm Gun
8 cm Short DP Gun
Type 98 8 cm 60 cal DP Gun

Remarks: Fixed ammunition
Rotating band same as shown for Mk. 1 Practice
projectile for these guns.



Diameter: 80 mm

Designation: Time Practice Projectile

Color and Markings: Black body, two rows of white dots
on ogive.

Projectile Length:

Projectile Length With Fuze:

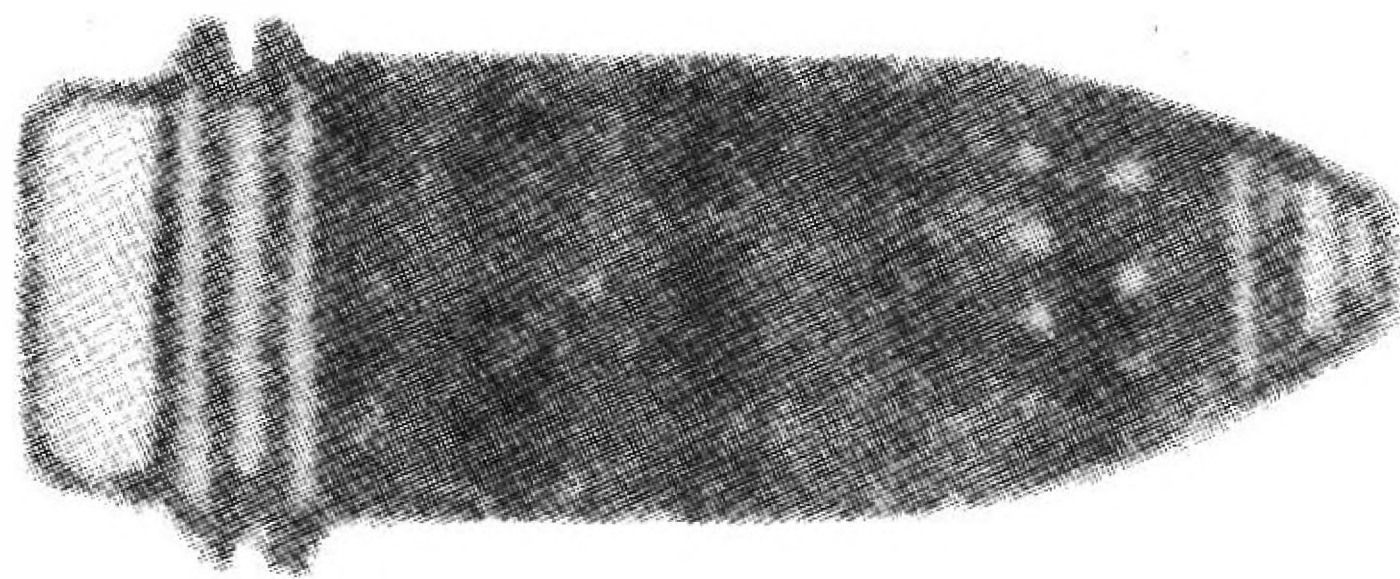
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 98 Time

Guns Used In: 8 cm Short DP Gun
Type 98 8 cm 60 cal DP Gun

Remarks: Fixed ammunition
Rotating band same as shown for Mk. 1 Practice
projectile for these guns.



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CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
30 APRIL 1945.

Diameter: 80 mm

Designation: Target Projectile

Color and Markings: Green body

Projectile Length:

Projectile Length With Fuze:

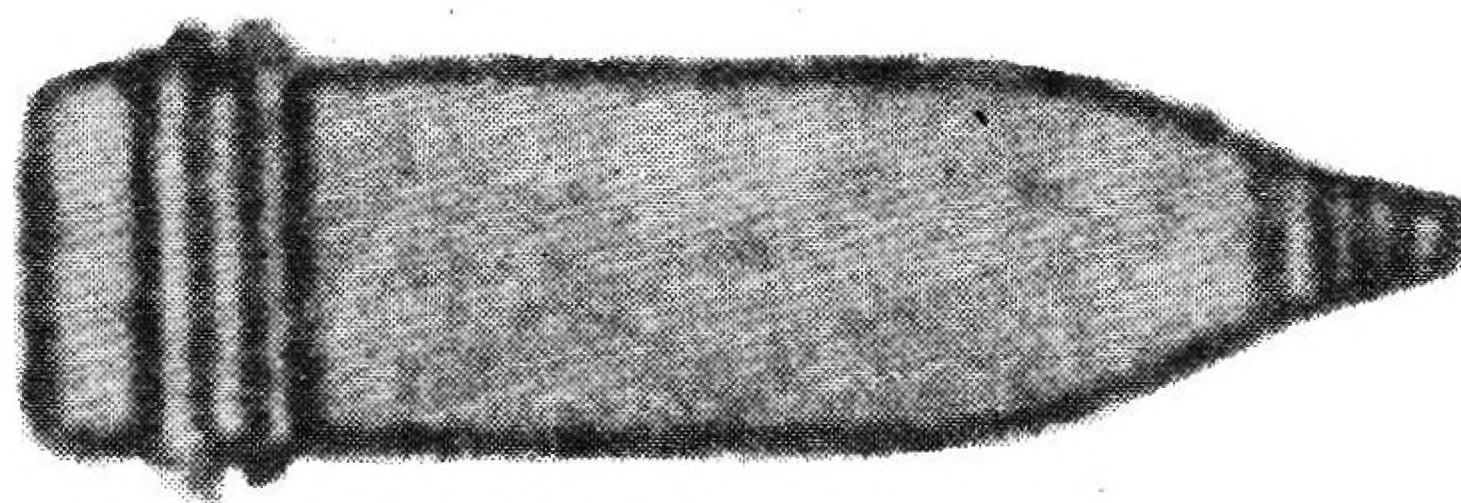
Projectile Weight:

Weight and Type of Filling:

Fuzing: 30 Second Time

Guns Used In: Type 88 8 cm 40 cal DP Gun
3rd Year Type 8 cm 40 cal DP Gun
8 cm Short Gun

Remarks: Fixed ammunition
Rotating band same as shown for Mk. 1 Practice
projectile for this gun.



Diameter: 80 mm

Designation: Smoke Tracer Projectile

Color and Markings: Red body

Projectile Length:

Projectile Length With Fuze:

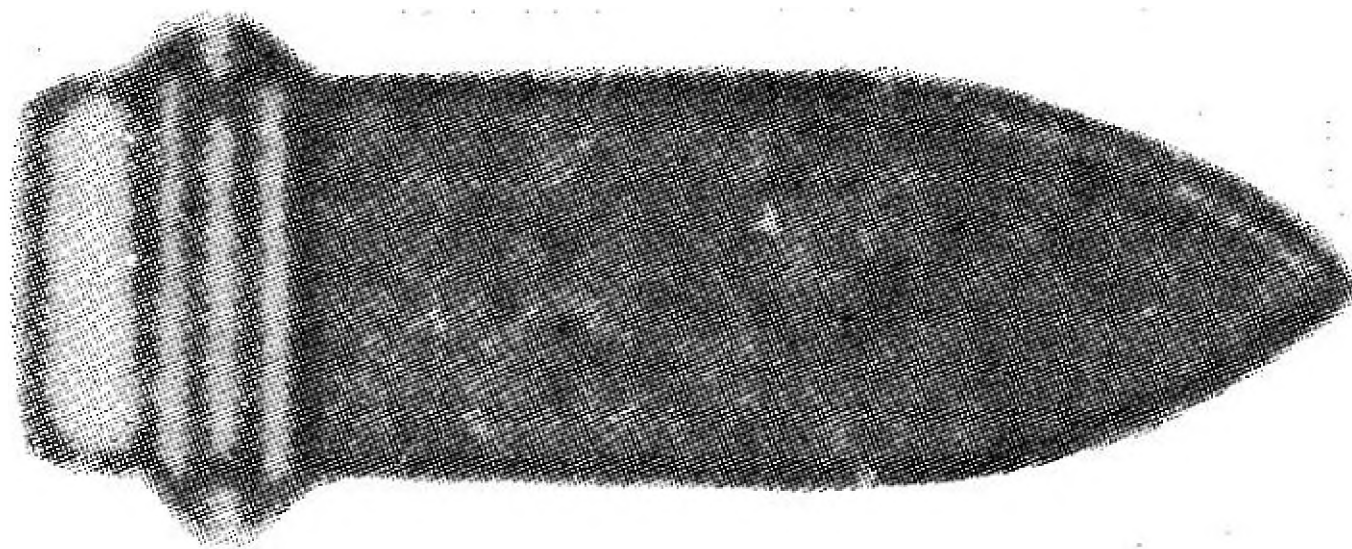
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 3 Time, Model 1

Guns Used In: Type 88 8 cm 40 cal DP Gun
3rd Year Type 8 cm 40 cal DP Gun
8 cm Short Gun

Remarks: Fixed ammunition
Rotating band same as shown for Mk. 1 Practice
projectile for this gun.



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CINCPAC-CINCPOA BULLETIN 85-45.

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30 APRIL 1945.

Diameter: 80 mm

Designation: Type 1 AP Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 1

Guns Used In: Type 88 8cm 40 cal DP Gun
3rd Year Type 8 cm 40 cal DP Gun

Remarks:

Diameter: 80 mm

Designation: Shrapnel Projectile

Color and Markings: Gray body

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

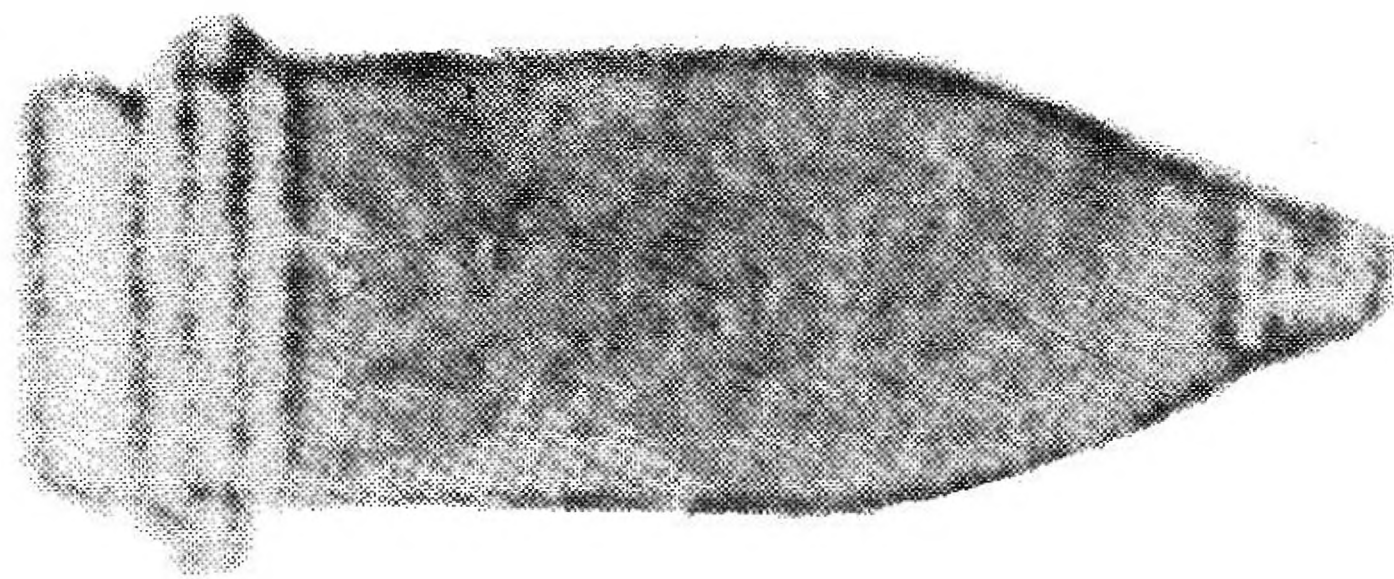
Fuzing: Type 98 Time
30 Second Time

Guns Used In:

3rd Year Type 8 cm 40 cal DP Gun	8 cm Short DP Gun
Type 88 8 cm 40 cal DP Gun	Type 98 8 cm 60 cal DP Gun

Remarks:

Fixed ammunition
Rotating band same as shown for Mk. 1
Practice projectile for these guns.



Diameter: 80 mm

Designation: Mk. 1 Common Projectile

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

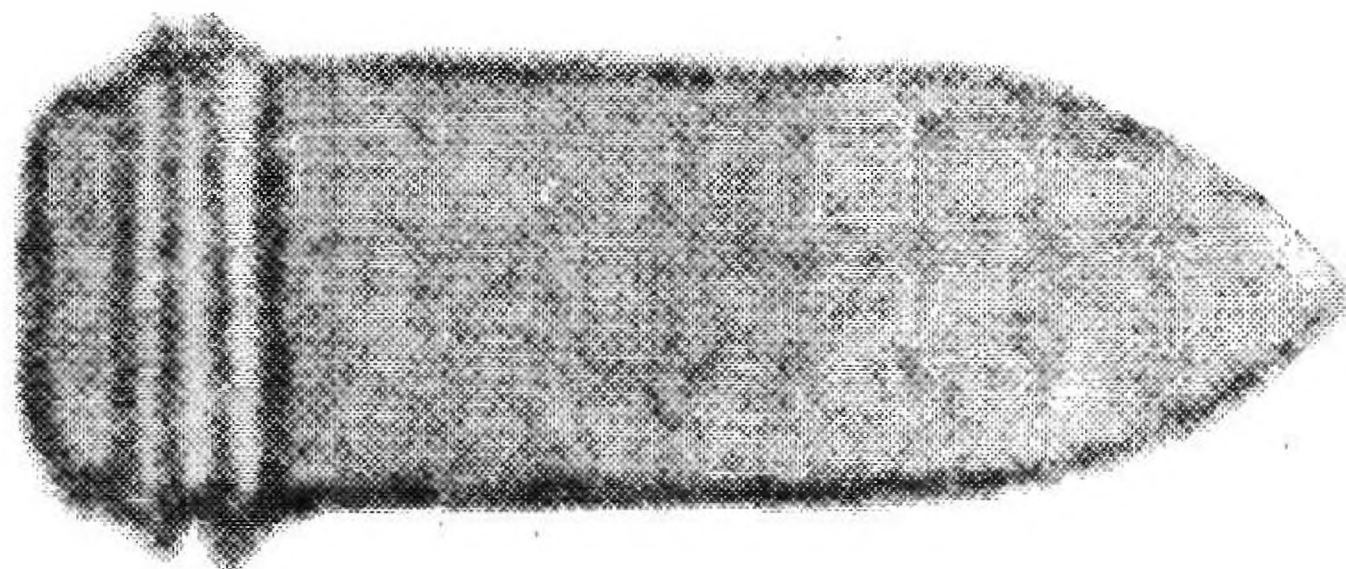
Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Nose, Modif. 3

Guns Used In: 8 cm Gun
8 cm Short Gun

Remarks: Ogive radius of 2 caliber
Rotating band same as shown for Mk. 1
Practice projectile for these guns.



Diameter: 80 mm

Designation: Mk. 1 Common projectile, Modif. 1, 2

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

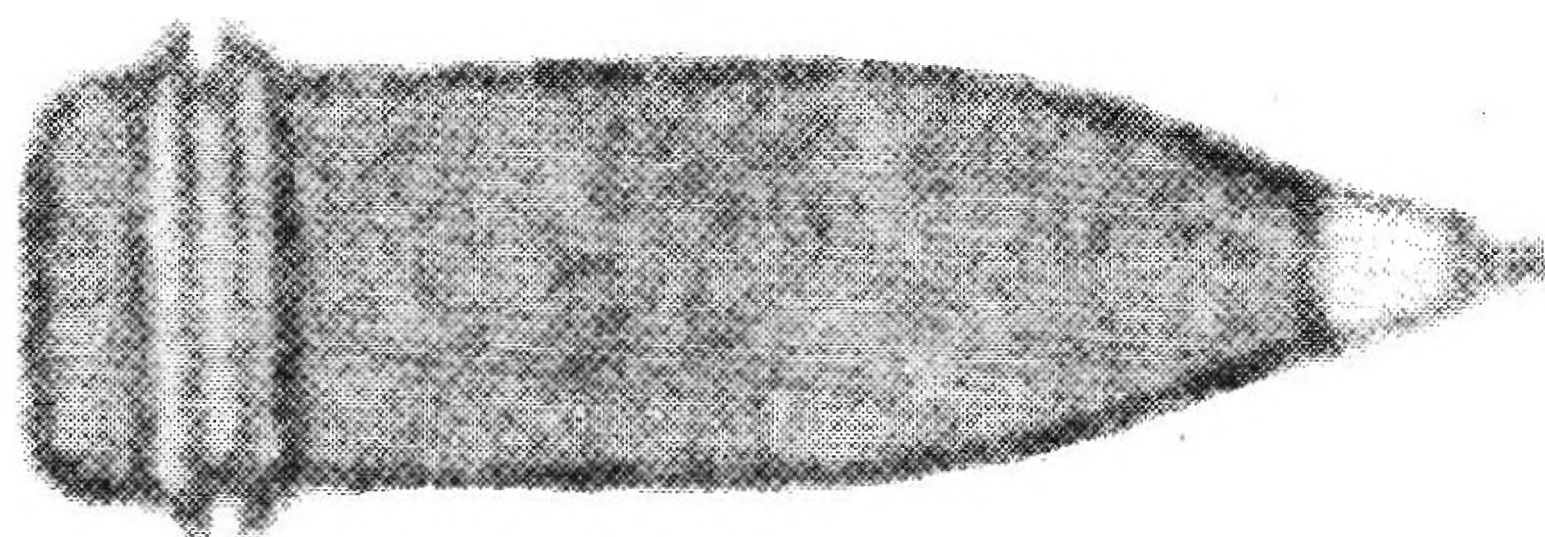
Projectile Weight:

Weight and Type of Filling:

Fuzing: For Modif. 2: Type 2 (TN: Formerly called 5th
Year Type Nose Fuze)

Guns Used In: 8 cm Gun

Remarks: Ogive radius of 2 caliber
(改二) (vertically) is stamped into the rotating band of Modif. 2
Rotating band same as shown for Mk. 1
Practice projectile for this gun.



Diameter: 80 mm

Designation: Mk. 1 Common Projectile B

Color and Markings: Rust color body, (乙) on ogive in white.

Projectile Length:

Projectile Length With Fuze:

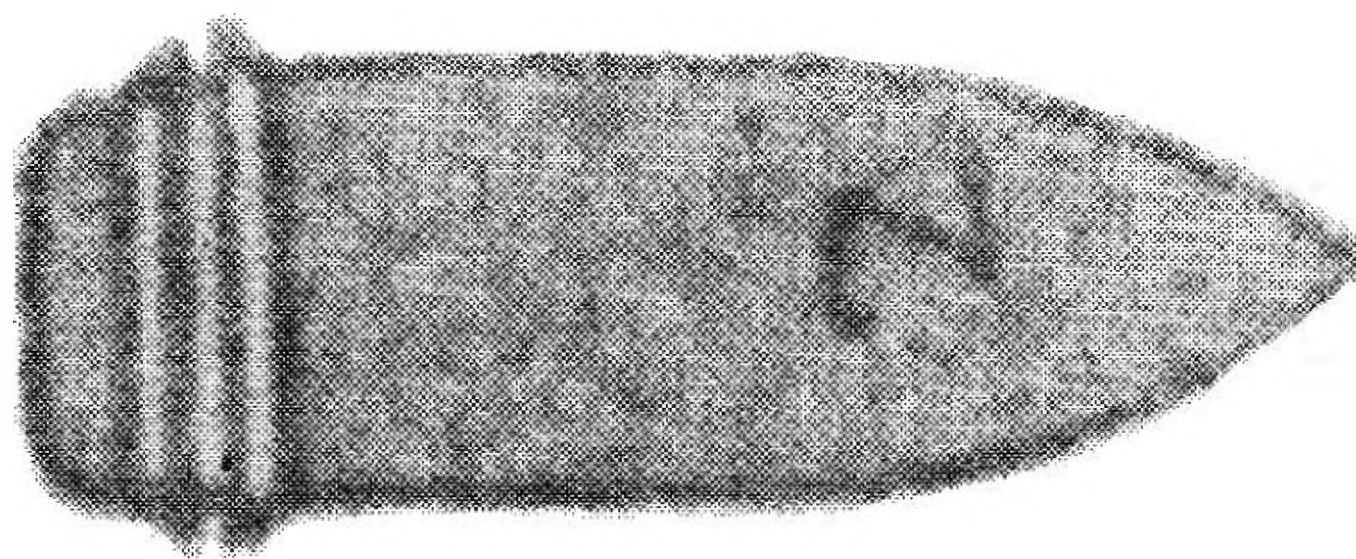
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 8 cm Gun

Remarks: Ogive radius of 2 caliber
Rotating band same as shown for Mk. 1 Practice
projectile for this gun.



Diameter: 80 mm

Designation: Mk. 2 Common Projectile

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

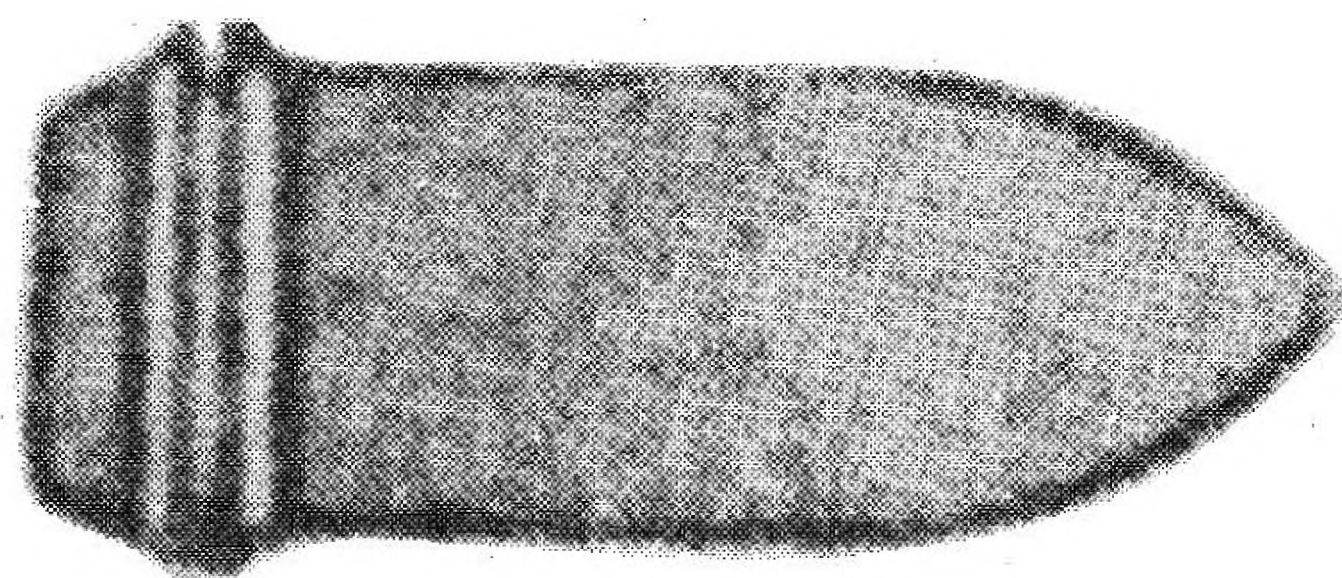
Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Nose, Modif. 3

Guns Used In: 8 cm Gun

Remarks: Ogive radius of 6 caliber
Rotating band same as shown for Mk. 1
Practice projectile for this gun.



Diameter: 80 mm

Designation: Mk. 2 Common Projectile, Modif. 1 and 2

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

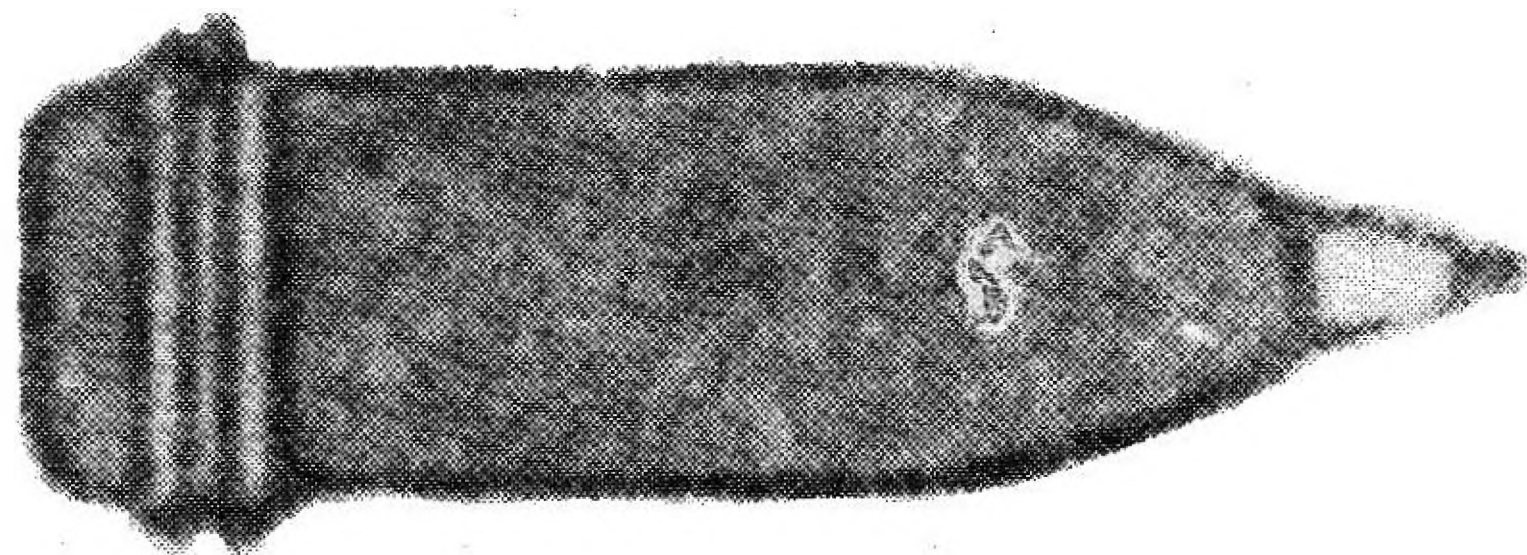
Projectile Weight:

Weight and Type of Filling:

Fuzing: For Modif. 2: Type 2 (TN: Formerly called 5th
Year Type Nose Fuze)

Guns Used In: 8 cm Gun

Remarks: Ogive radius of 6 caliber
(改二) (vertically) is stamped into the
rotating band of Modif. 2.
Rotating band same as shown for Mk. 1
Practice projectile for this gun.



Diameter: 80 mm

Designation: Mk. 3 Common Projectile

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

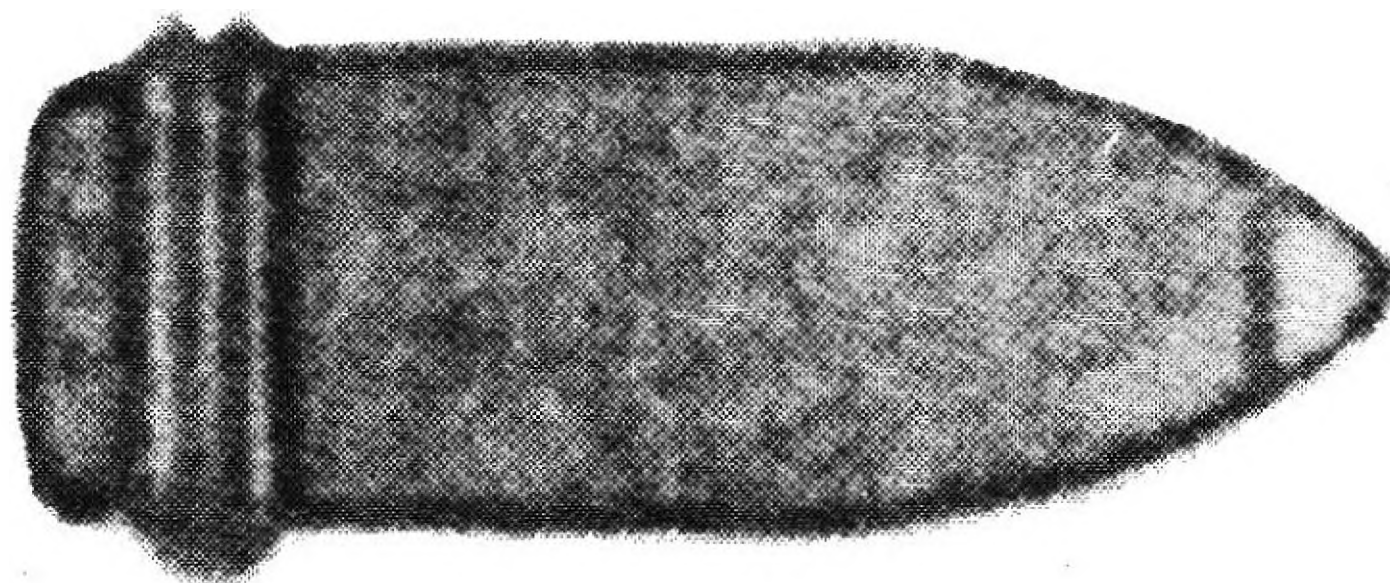
Projectile Weight:

Weight and Type of Filling:

Fuzing: For Type 98 8 cm 60 cal DP Gun: Type 98 Time
For 8 cm Gun: Type 2 (TN: Formerly called 5th Year
Type Nose Fuze)

Guns Used In: 8 cm Gun
8 cm Short DP Gun
Type 98 8 cm 60 cal DP Gun

Remarks: Fixed ammunition
Rotating band same as shown for Mk. 1
Practice projectile for these guns.



Diameter: 80 mm

Designation: Mk. 3 Common Projectile Modif. 1

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 2 (TN: Formerly called 5th Year Type
Nose Fuze)
Type 89 Long-pointed AA

Guns Used In: 8 cm Gun
Type 88 40 cal 8 cm DP Gun
3rd Year Type 40 cal 8 cm DP Gun

Remarks: Rotating band same as shown for Mk. 1
Practice projectile for this gun.

Diameter: 100 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body

Projectile Length:

Projectile Length With Fuze:

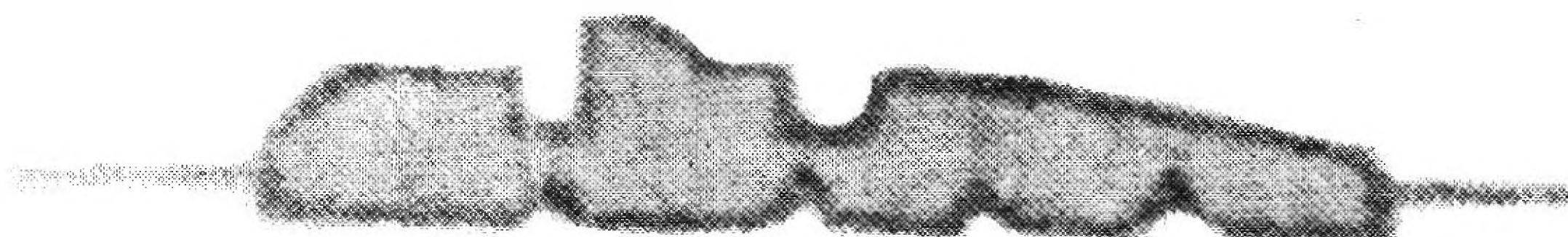
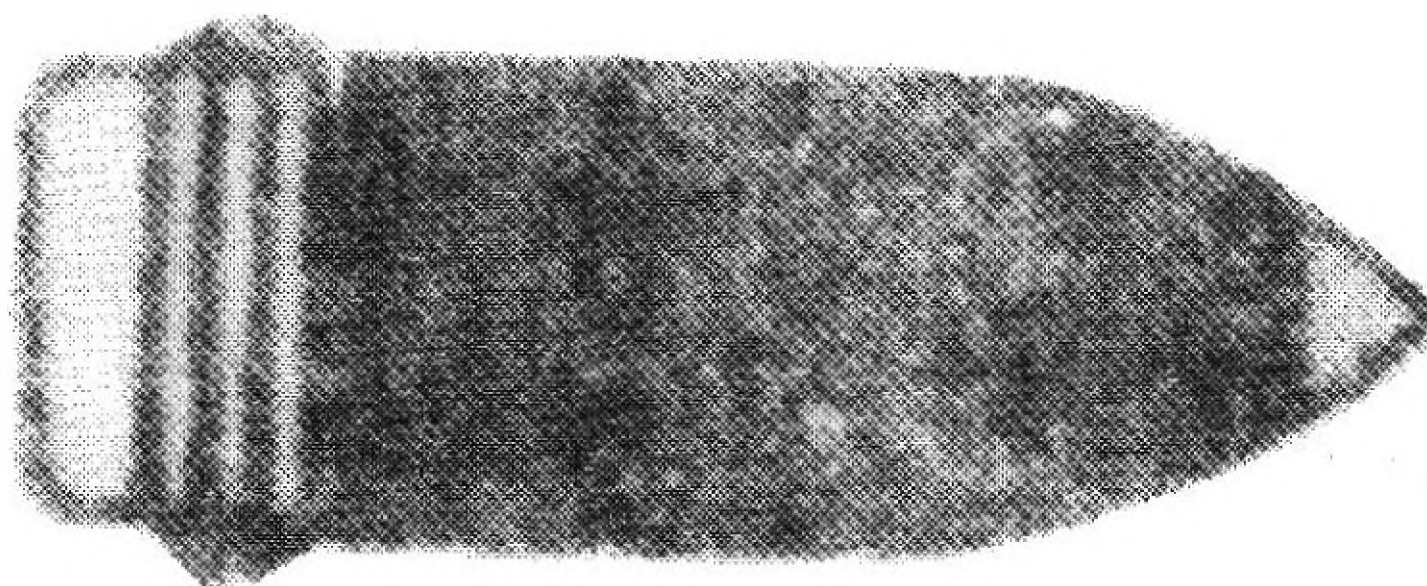
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88, Model 2

Guns Used In: Type 98 10 cm 50 cal DP Gun
Type 98 10 cm 65 cal DP Gun

Remarks: Fixed ammunition
Used for level firing



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CINCPAC-CINCPOA BULLETIN 85-45.

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Diameter: 100 mm

Designation: Time Practice Projectile

Color and Markings: Black body, two rows of white dots on ogive.

Projectile Length:

Projectile Length With Fuze:

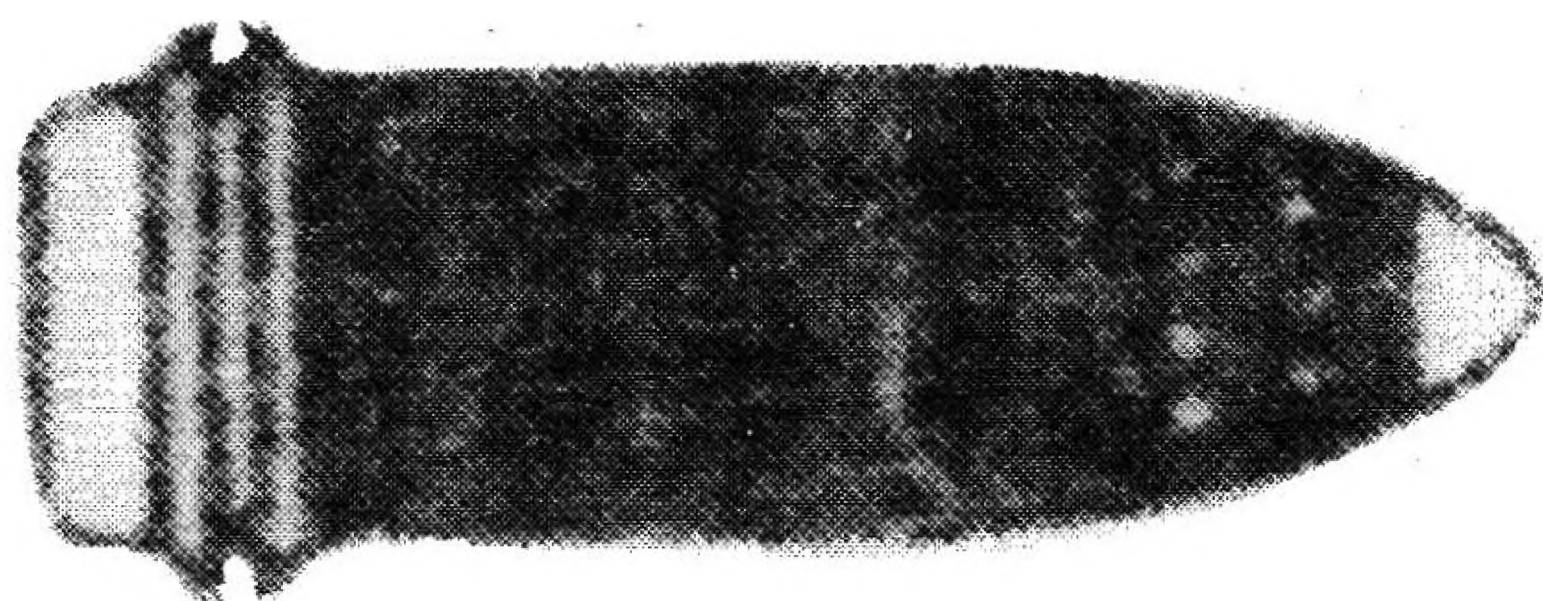
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 98 Time

Guns Used In: Type 98 10 cm 50 cal DP Gun
Type 98 10 cm 65 cal DP Gun

Remarks: Fixed ammunition
Rotating band same as shown for Practice
projectile for this gun
Used for AA firing



Diameter: 100 mm

Designation: Common Projectile

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

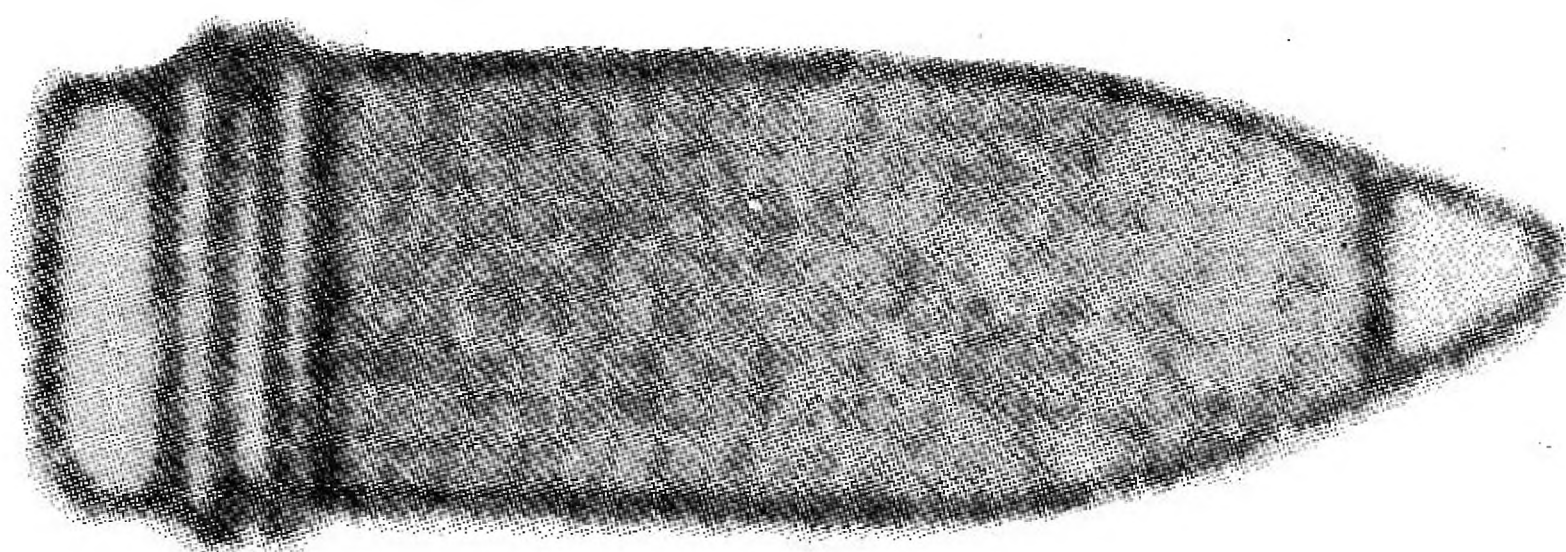
Projectile Weight:

Weight and Type of Filling:

<i>Fuzing:</i> Type 98 Time	Type 88
Type 88, Model 2	Type 88, Modif. 1
Type 4	

Guns Used In: Type 98 10 cm 50 cal DP Gun
Type 98 10 cm 65 cal DP Gun

Remarks: Fixed ammunition
Rotating band same as shown for Practice
projectile for this gun.
Type 98 Fuze used for AA firing. Type 88 fuzes
for level firing and Type 4 for both.



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Diameter: 120 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body

Projectile Length:

Projectile Length With Fuze:

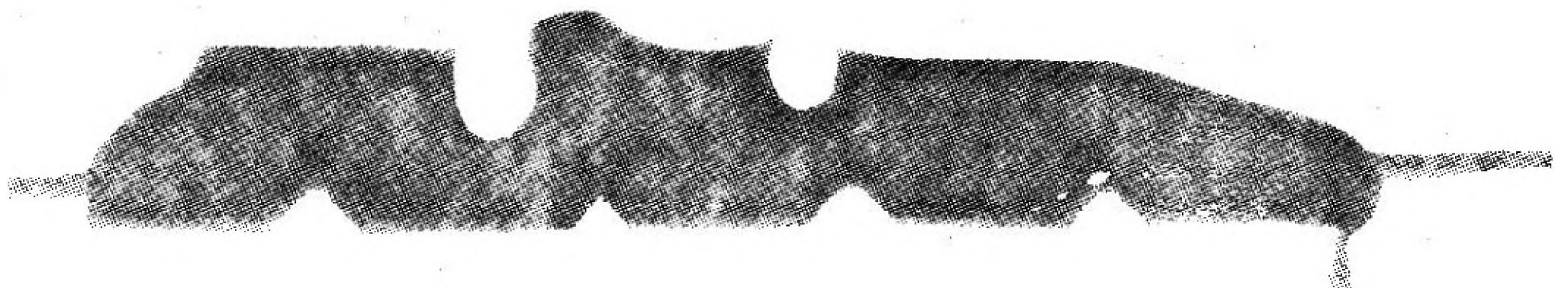
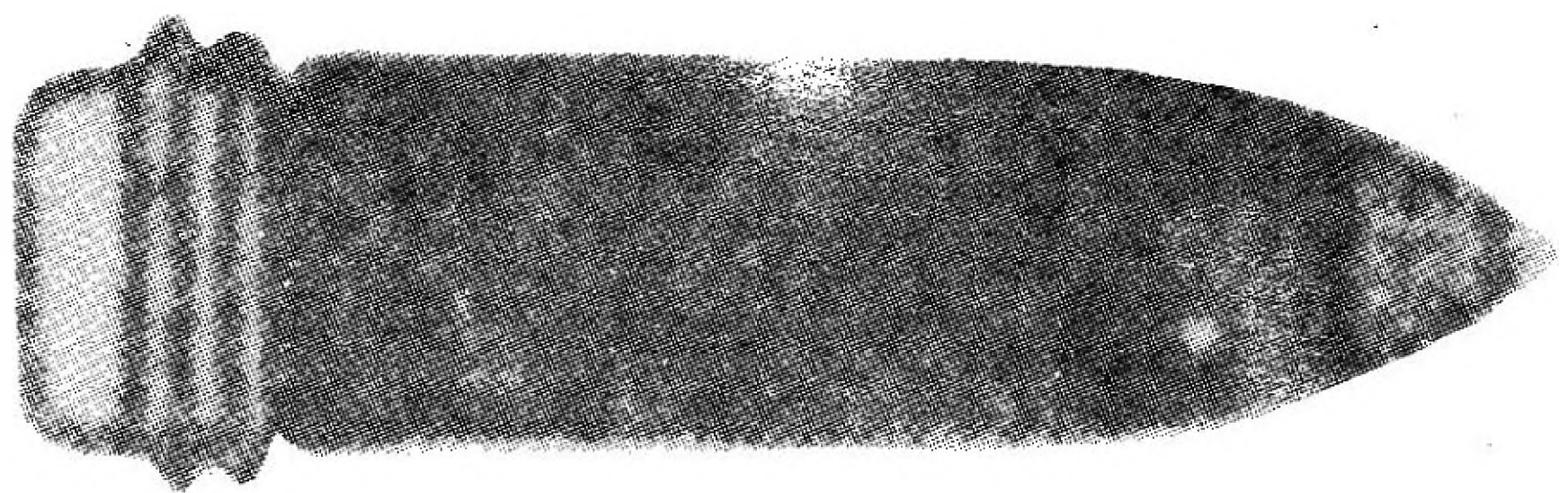
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88, Model 2

Guns Used In: 10th Year Type 12 cm 45 cal DP Gun

Remarks: Fixed ammunition. Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band. Used for level firing.



Diameter: 120 mm

Designation: Time Practice Projectile

Color and Markings: Yellow nose, black body, two rows of white dots on ogive.

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 91 Time, Modif. 1

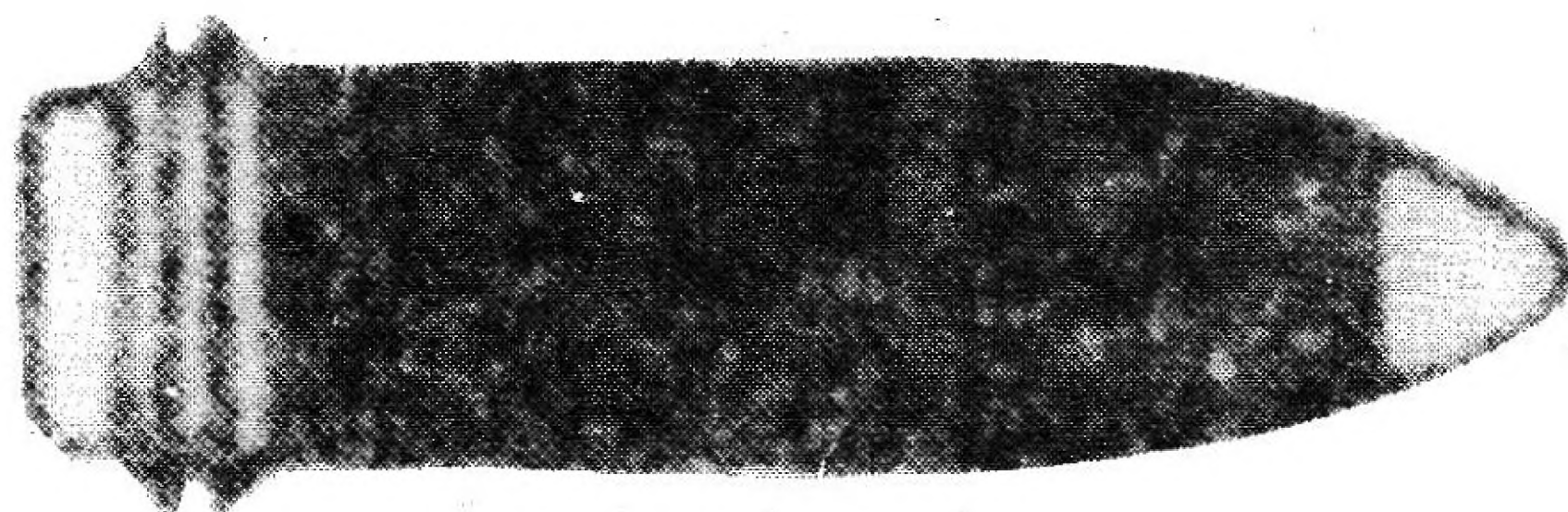
Guns Used In: 10th Year Type 12 cm 45 cal DP Gun

Remarks: Fixed ammunition

Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band.

Rotating band same as shown for Practice projectile for this gun.

Used for AA firing.



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CINCPAC-CINCPOA BULLETIN 85-45.

CONFIDENTIAL.
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Diameter: 120 mm

Designation: Mk. 1 Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

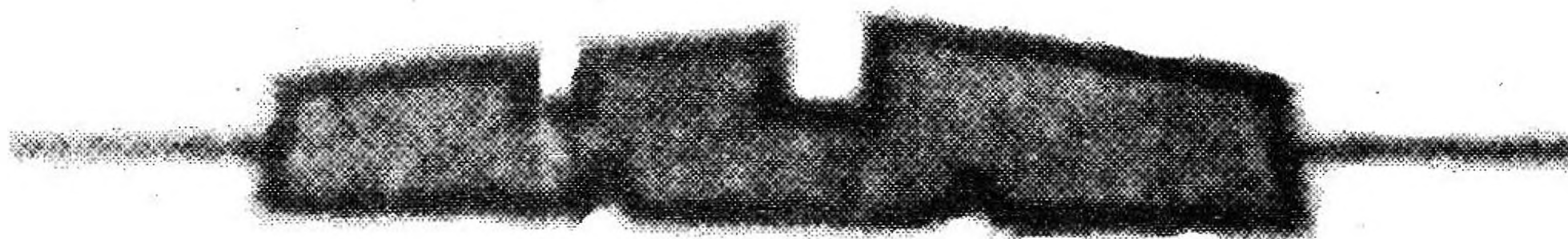
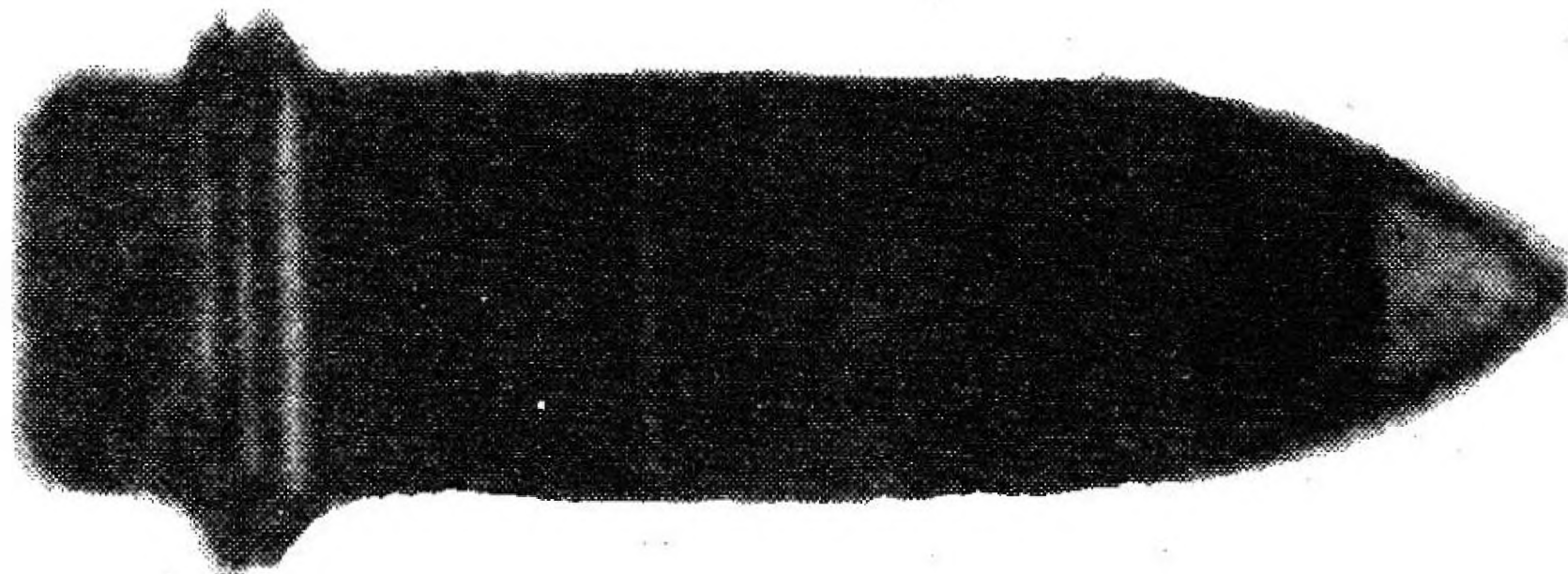
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 12 cm 40 cal Gun
12 cm 45 cal Gun

Remarks: Ogive radius of 2 caliber



Diameter: 120 mm

Designation: Mk. 2 Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

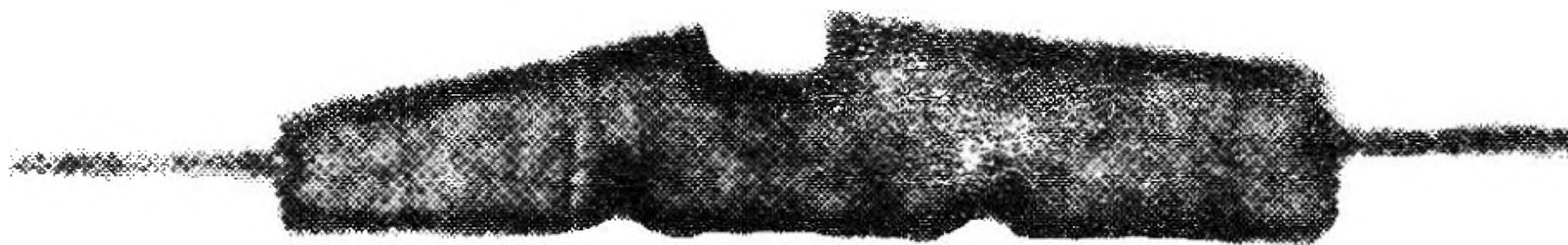
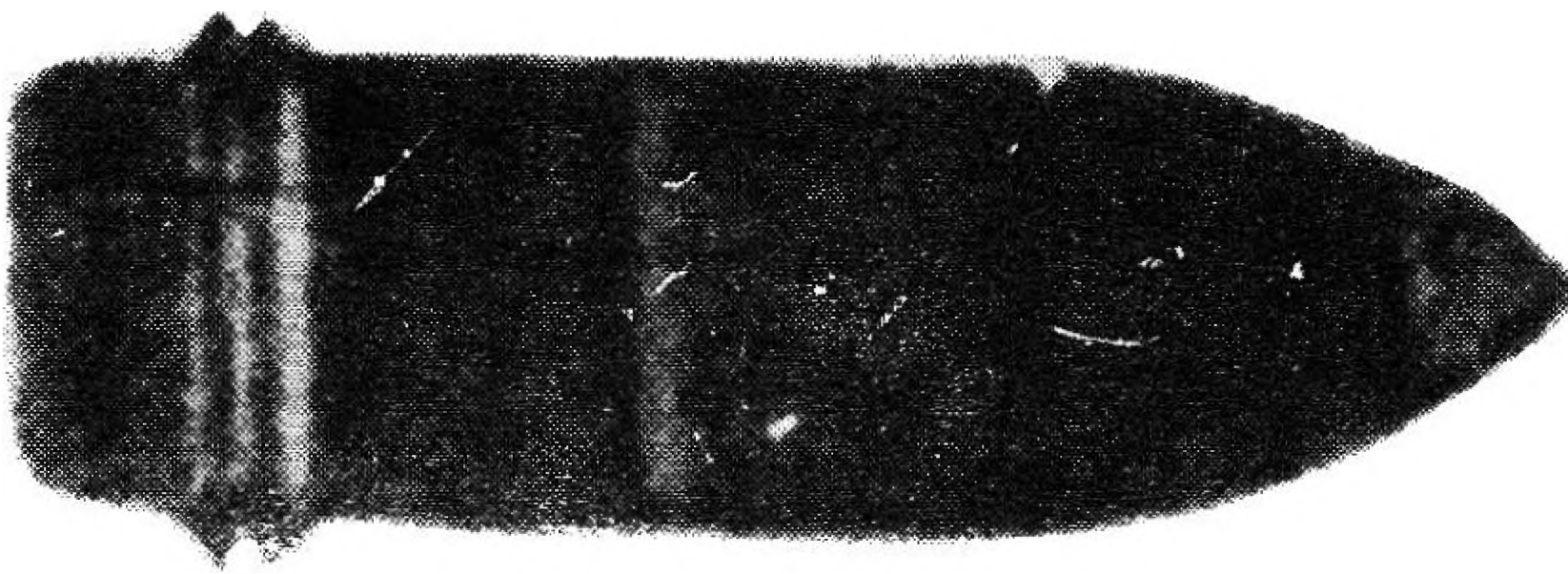
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 12 cm 40 cal Gun
12 cm 45 cal Gun

Remarks: Ogive radius of 6 caliber



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Diameter: 120 mm

Designation: Mk. 3 Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length: 383 mm

Projectile Length With Fuze:

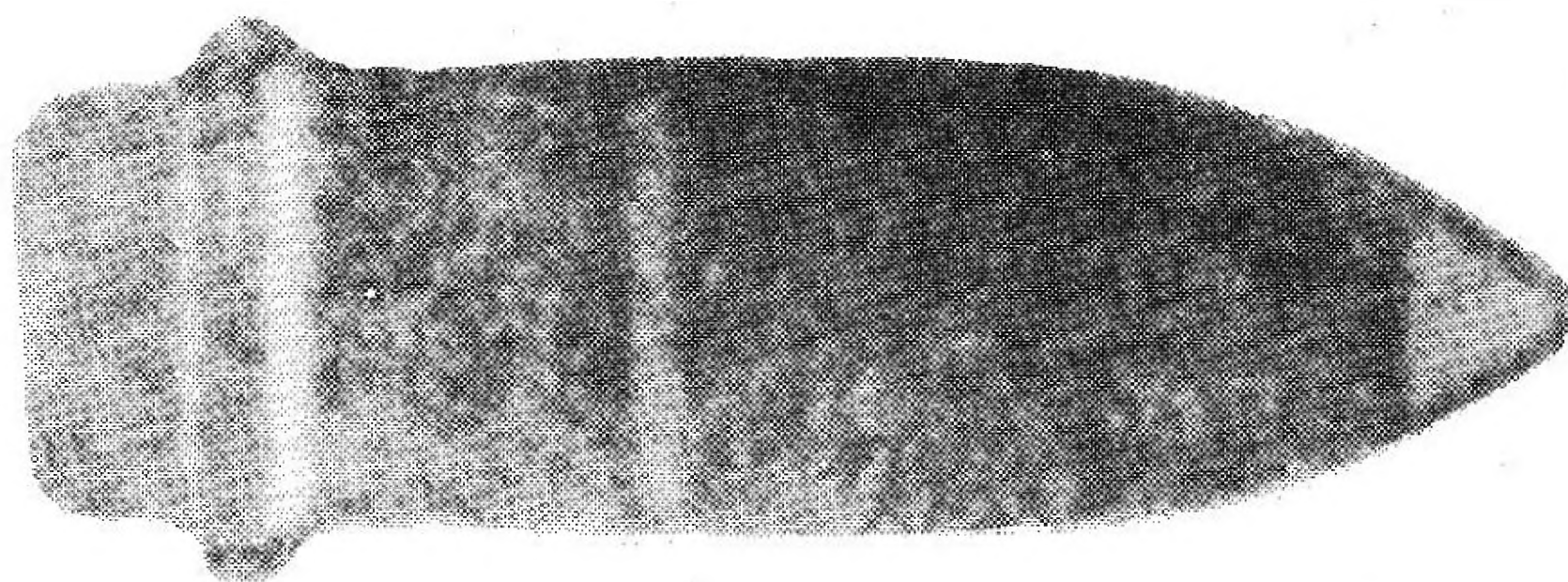
Projectile Weight: 20.45 kg

Weight and Type of Filling:

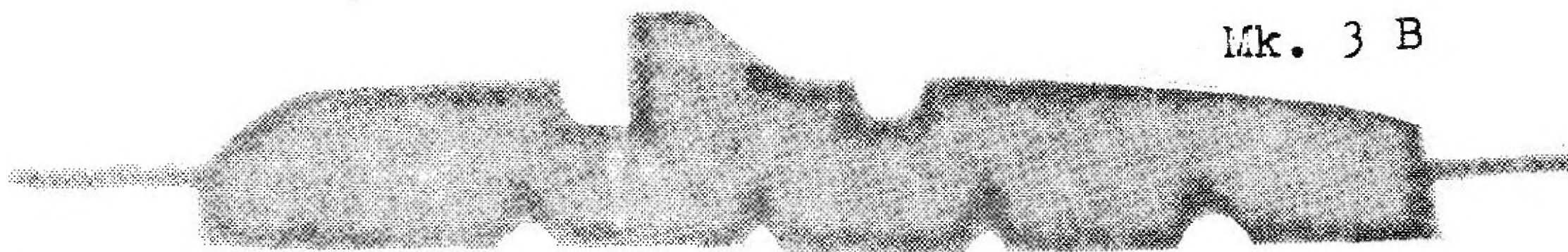
Fuzing:

Guns Used In: 12 cm 40 cal Gun
12 cm 45 cal Gun

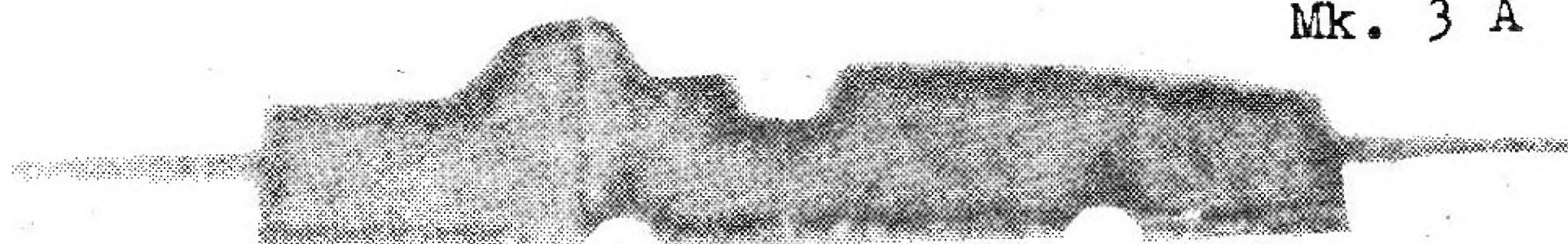
Remarks: Ogive radius of 4 caliber



Mk. 3 B



Mk. 3 A



Diameter: 120 mm

Designation: Target Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

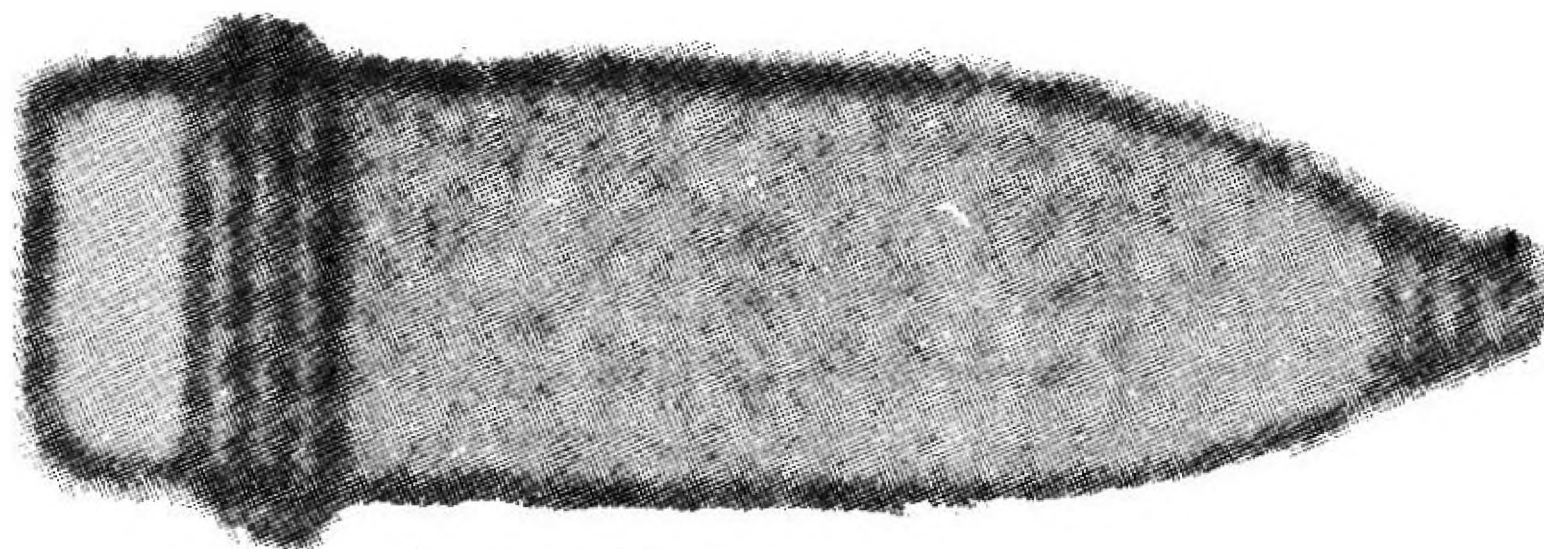
Fuzing: 30 Second Time

Guns Used In: 10th Year Type 12 cm 45 cal DP Gun

Remarks: Fixed ammunition

Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band.

Rotating band same as for Practice projectile for this gun.



Diameter: 120 mm

Designation: Star Projectile

Color and Markings: Blue body

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

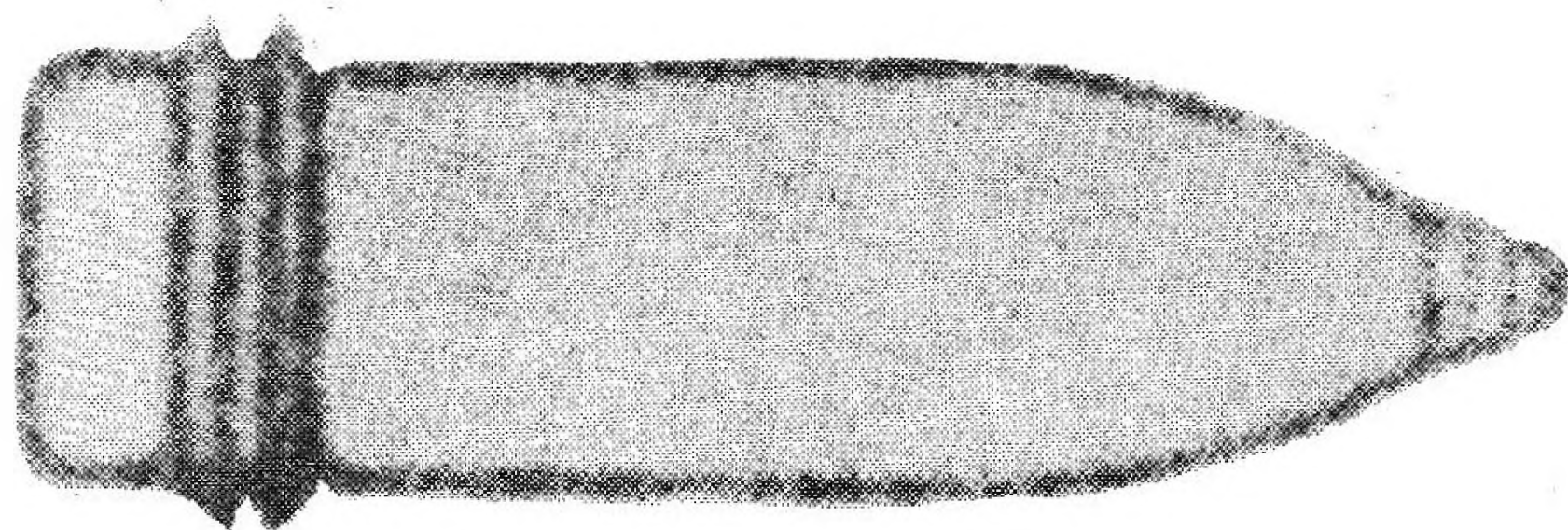
Fuzing:

Guns Used In: 12 cm 45 cal DP Gun

Remarks: Fixed ammunition

Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band.

Rotating band same as shown for Practice projectile for this gun.



Diameter: 120 mm

Designation: Star Projectile

Color and Markings: Blue body

Projectile Length:

Projectile Length With Fuze:

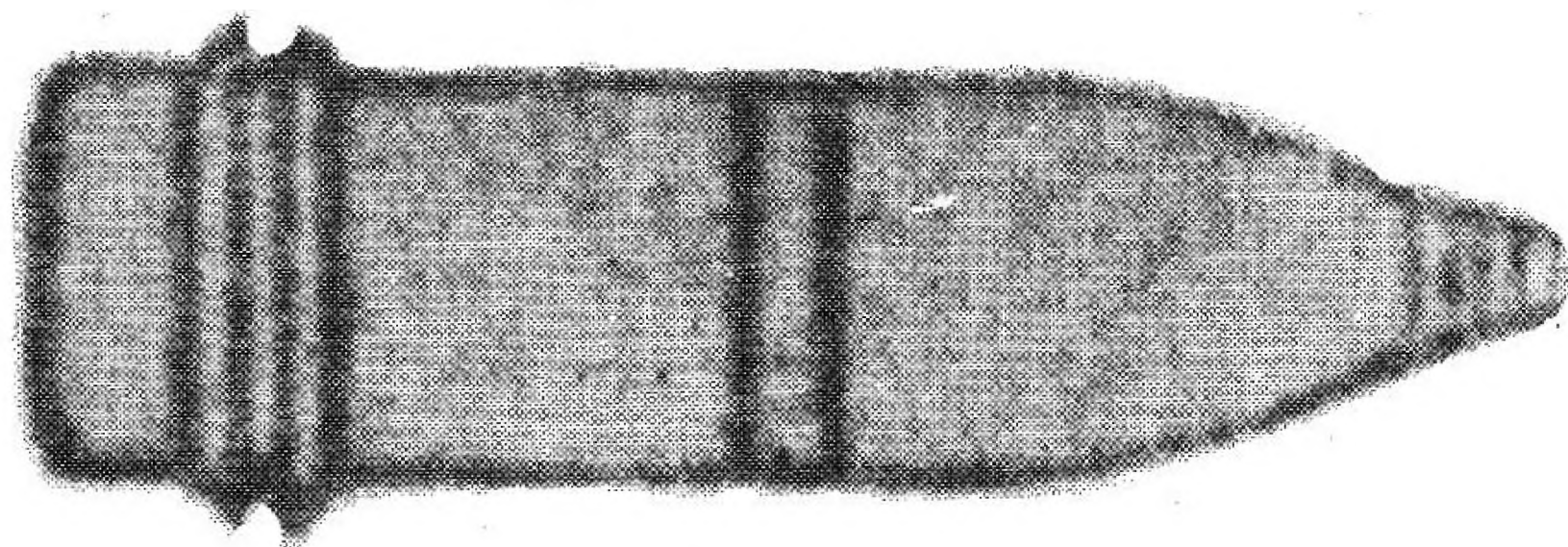
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 12 cm 40 cal Gun
12 cm 45 cal Gun

Remarks:



Diameter: 120 mm

Designation: Barrage Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling: Type 91 Explosive powder
Incendiary bursting charge

Fuzing: Type 91 Time, Modif. 1

Guns Used In: 12 cm Short Gun

Remarks: Used for AA firing

Diameter: 120 mm

Designation: Common Projectile

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88, Modif. 1 Type 91 Time, Modif. 1
 Type 88 Type 4
 Type 88, Model 2

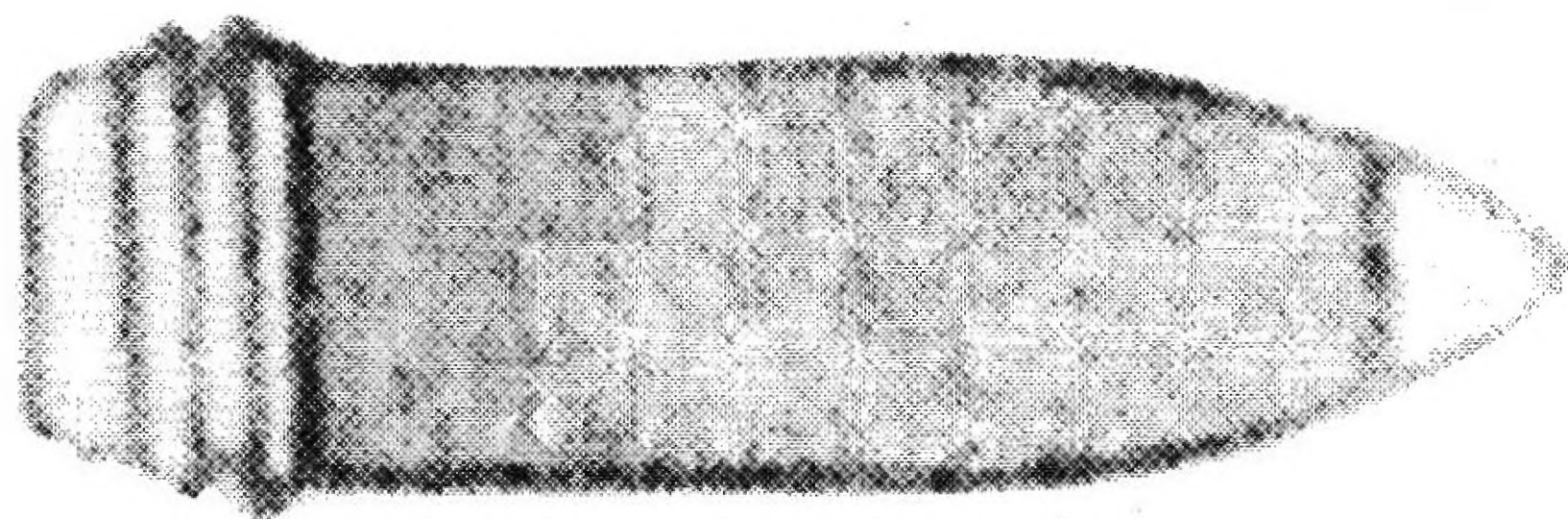
Guns Used In: 10th Year Type 12 cm 45 cal DP Gun

Remarks: Fixed ammunition

Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band.

Rotating band same as shown for Practice projectile for this gun.

Type 91 Fuze used for AA firing, Type 88 fuze used for level firing and Type 4 Fuze used for both.



Diameter: 120 mm

Designation: Mk. 1 Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

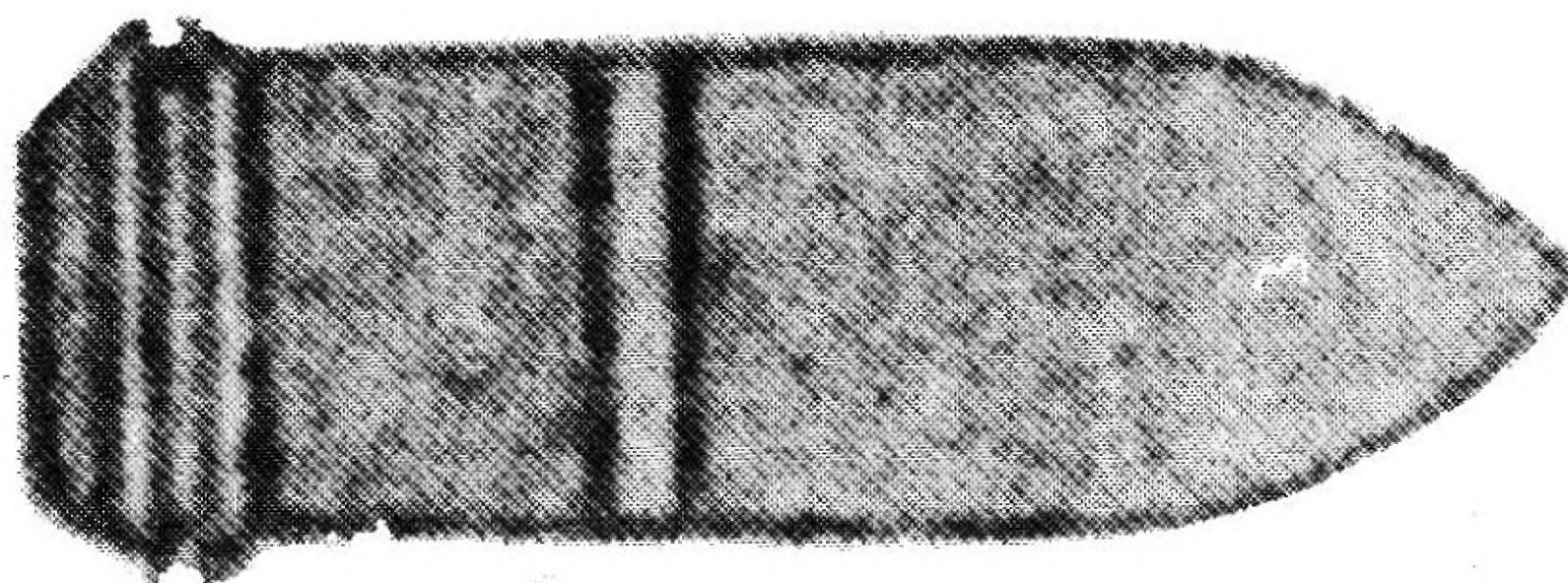
Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Nose, Modif. 3

Guns Used In: 12 cm 40 cal Gun
12 cm 45 cal Gun

Remarks: Ogive radius of 2 caliber
Rotating band same as shown for Mk. 1 Practice
projectile for these guns.



Diameter: 120 mm

Designation: Mk. 1 Common Projectile, Modif. 1

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

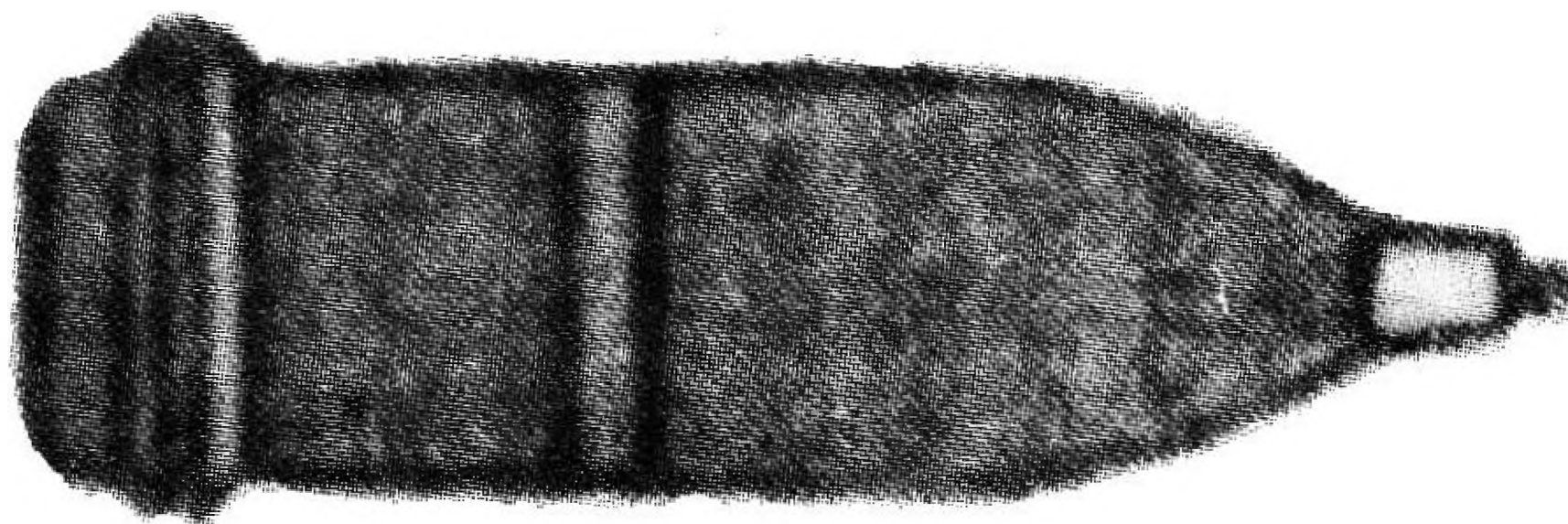
Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Nose, Modif. 3

Guns Used In: 12 cm 40 cal Gun
12 cm 45 cal Gun

Remarks: Ogive radius of 2 caliber
Rotating band same as shown for Mk. 1 Practice
projectile for these guns



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Diameter: 120 mm

Designation: Mk. 2 Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

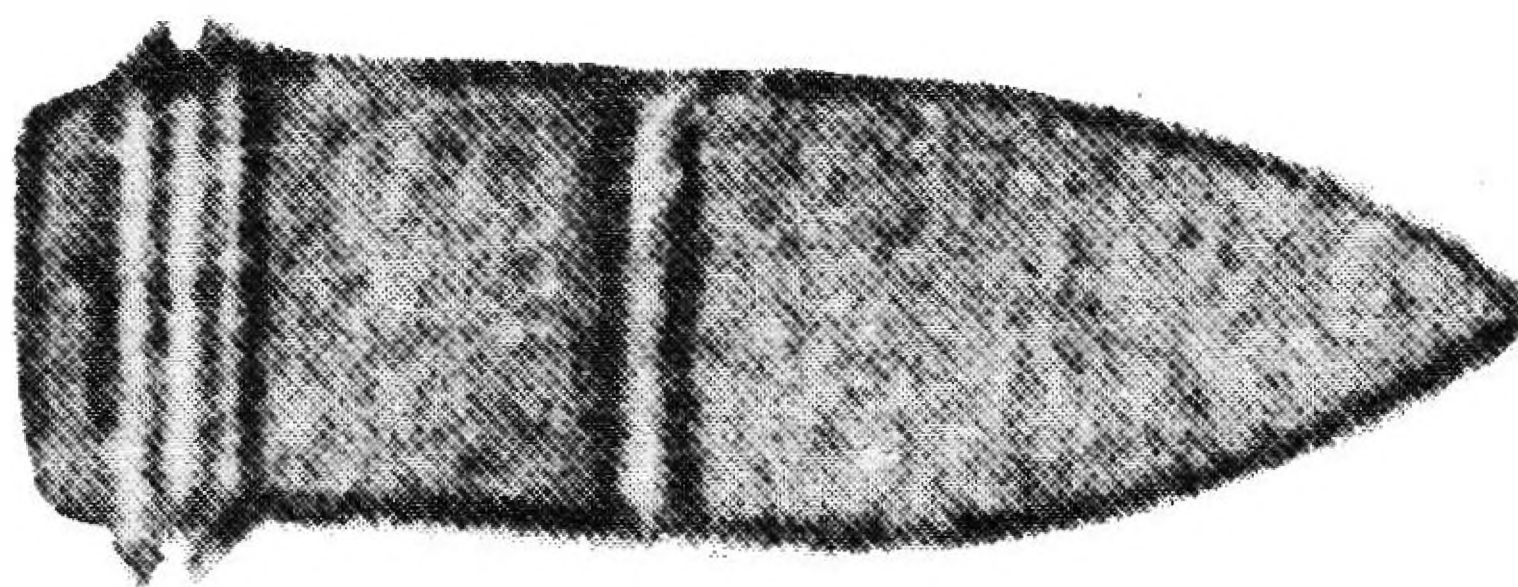
Projectile Weight:

Weight and Type of Filling:

Fuzing: 5th Year Type Nose, Modif. 3

Guns Used In: 12 cm 40 cal Gun
12 cm 45 cal Gun

Remarks: Ogive radius of 6 caliber
Rotating band same as shown for Mk. 2 Practice
projectile for these guns.



Diameter: 120 mm

Designation: Mk. 2 Common Projectile, Modif. 1, 2

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

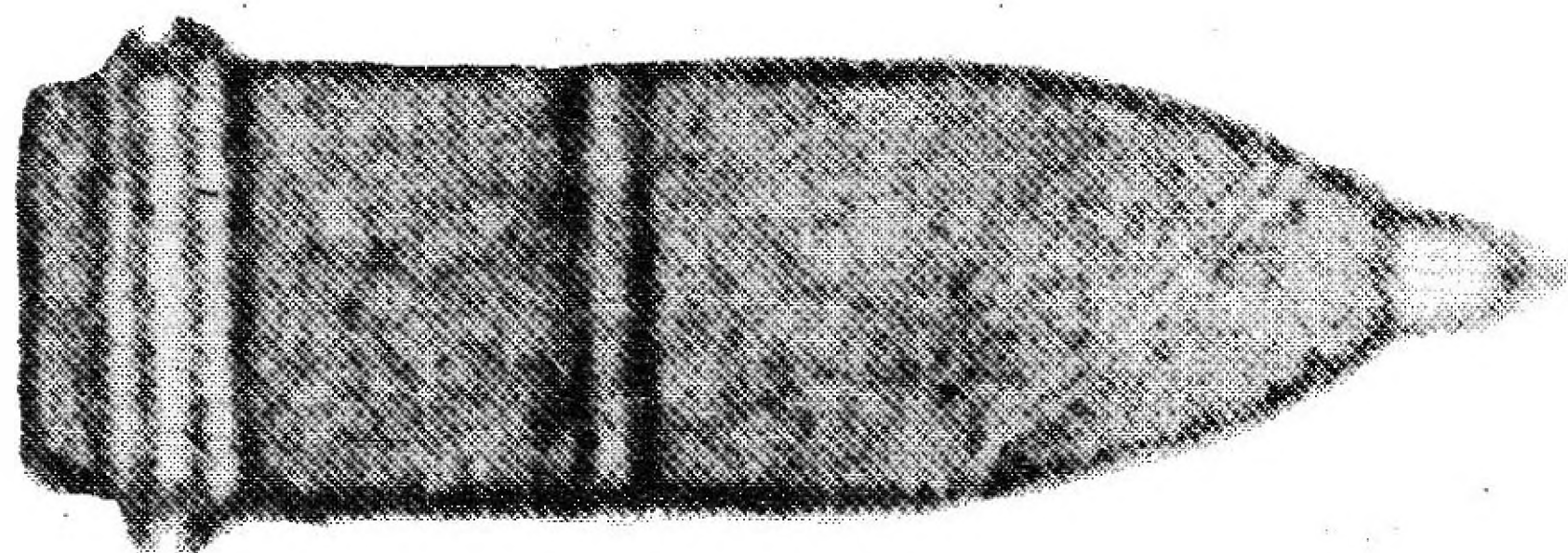
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 2 (TN: Formerly called 5th Year Type
Nose Fuze)

Guns Used In: 12 cm 40 cal Gun
12 cm 45 cal Gun

Remarks: Ogive radius of 6 caliber
Modif. 2 projectile has (改二) (vertically)
stamped into the rotating band.
Rotating band same as shown for Mk. 2
Practice projectile for these guns.



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Diameter: 120 mm

Designation: Mk. 3 Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

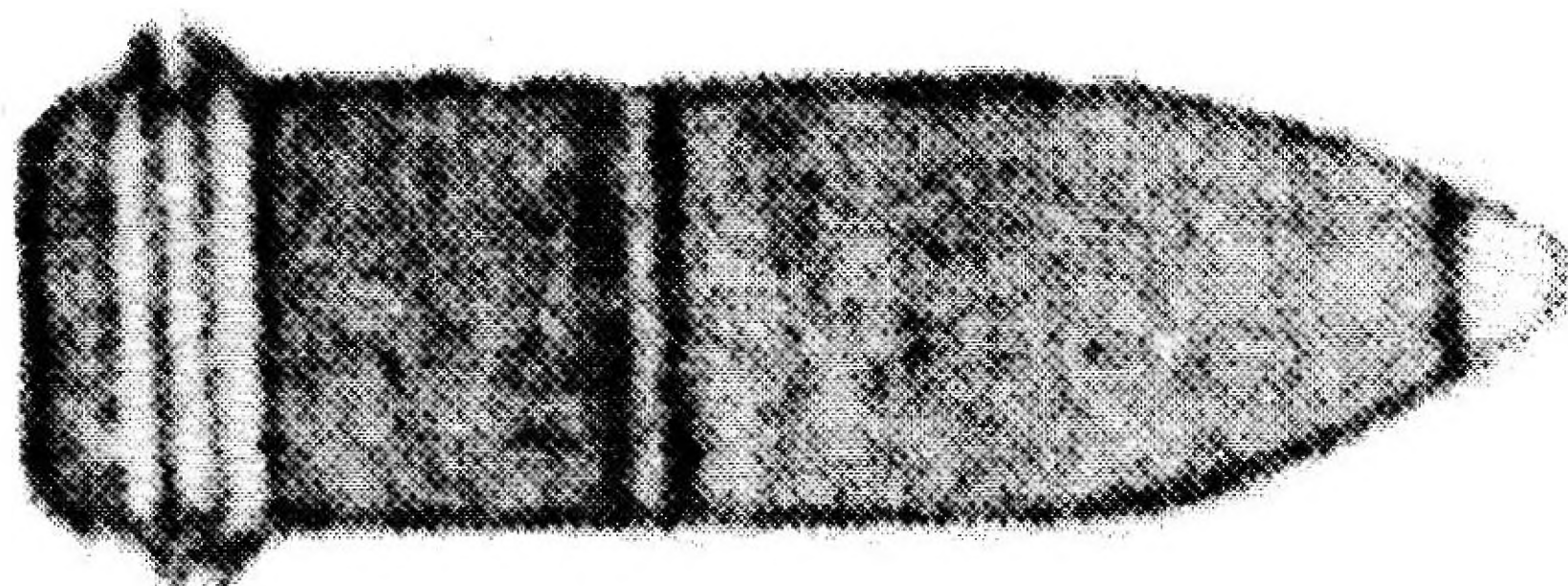
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 2 (TN: Formerly called 5th Year Type
Nose Fuze)

Guns Used In: 12 cm 40 cal Gun
12 cm 45 cal Gun

Remarks: Ogive radius of 4 caliber
Rotating bands same as shown for Mk. 3 Practice
projectile for these guns.



Diameter: 120 mm

Designation: Mk. 3 Common Projectile, Modif. 1

Color and Markings: Rust color, yellow central band,
(改一) (vertically) on ogive in white.

Projectile Length: 377.0 mm

Projectile Length With Fuze:

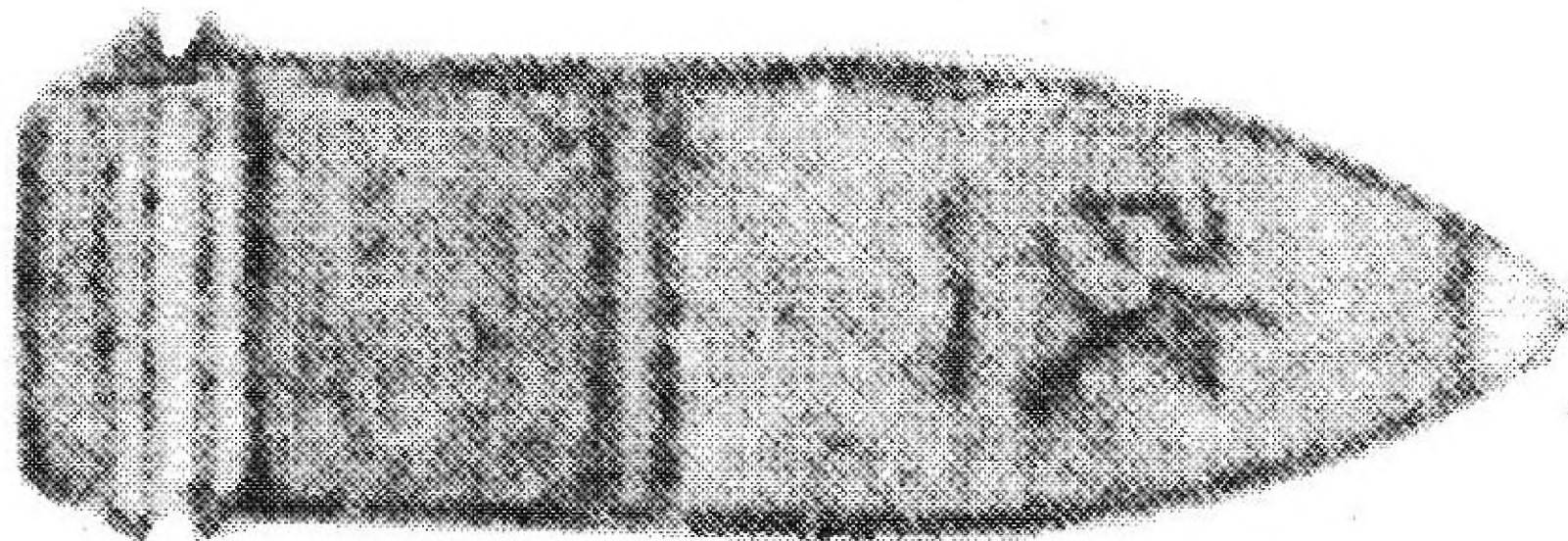
Projectile Weight: 20.34 kg

Weight and Type of Filling: Picric acid (cast) - 1.64 kg

Fuzing: Type 2 (TN: Formerly called 5th Year Type
Nose Fuze)

Guns Used In: 12 cm 40 cal Gun
12 cm 45 cal Gun

Remarks: Ogive radius of 4 caliber
Rotating bands same as shown for Mk. 3
Practice projectile for these guns.



Diameter: 120 mm

Designation: Mk. 4 Common Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88, Modif. 1
Type 88, Model 2

Guns Used In: 12 cm 40 cal Gun

Remarks:

Diameter: 127 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

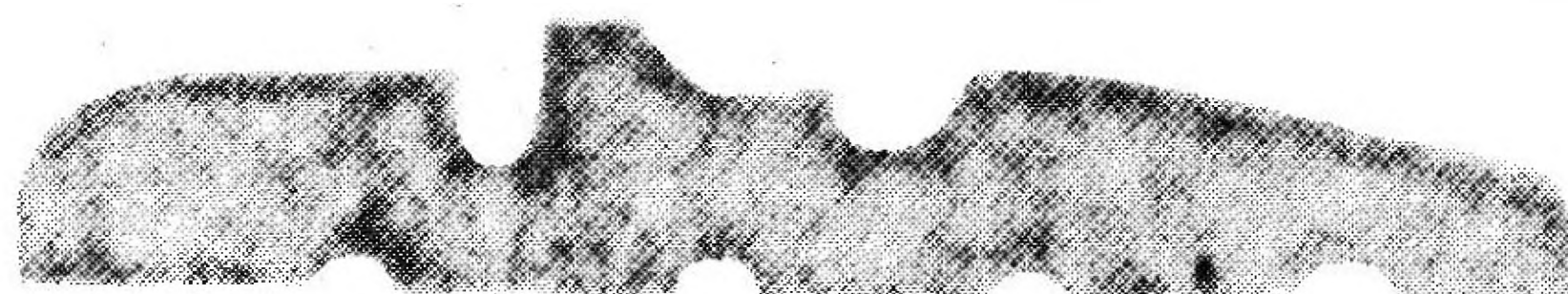
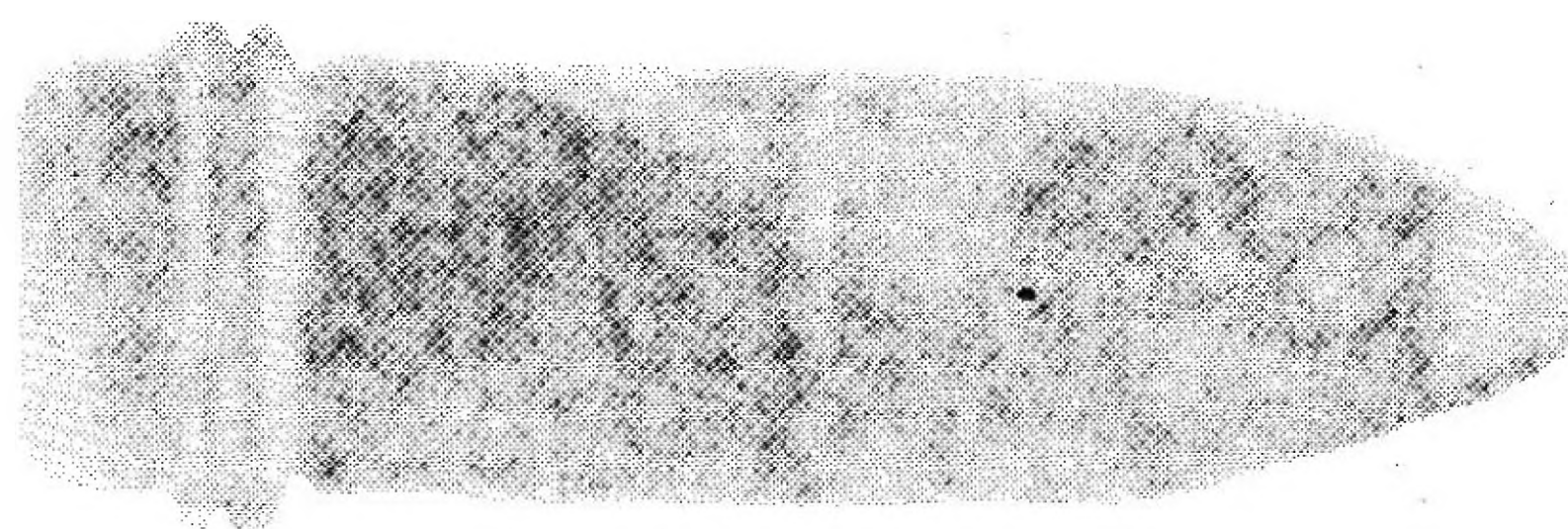
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 12.7 cm 50 cal Gun

Remarks: Projectiles with an unfilled base plug or
without a bursting charge base plate have (改)
stamped into the rotating band.



Diameter: 127 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body

Projectile Length:

Projectile Length With Fuze:

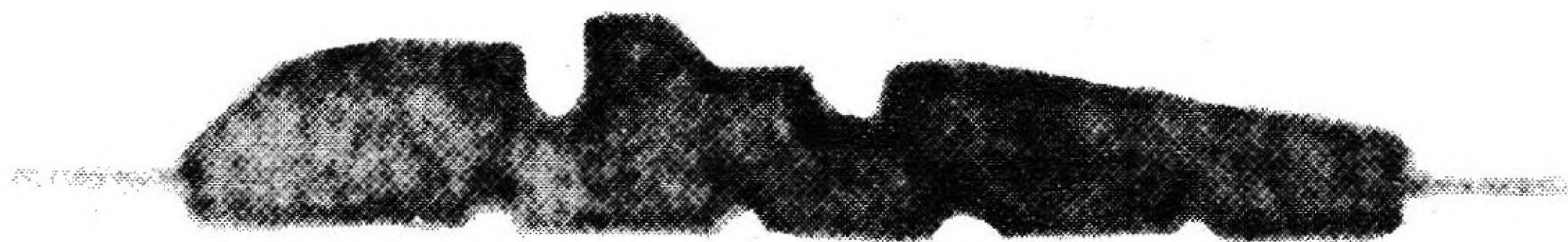
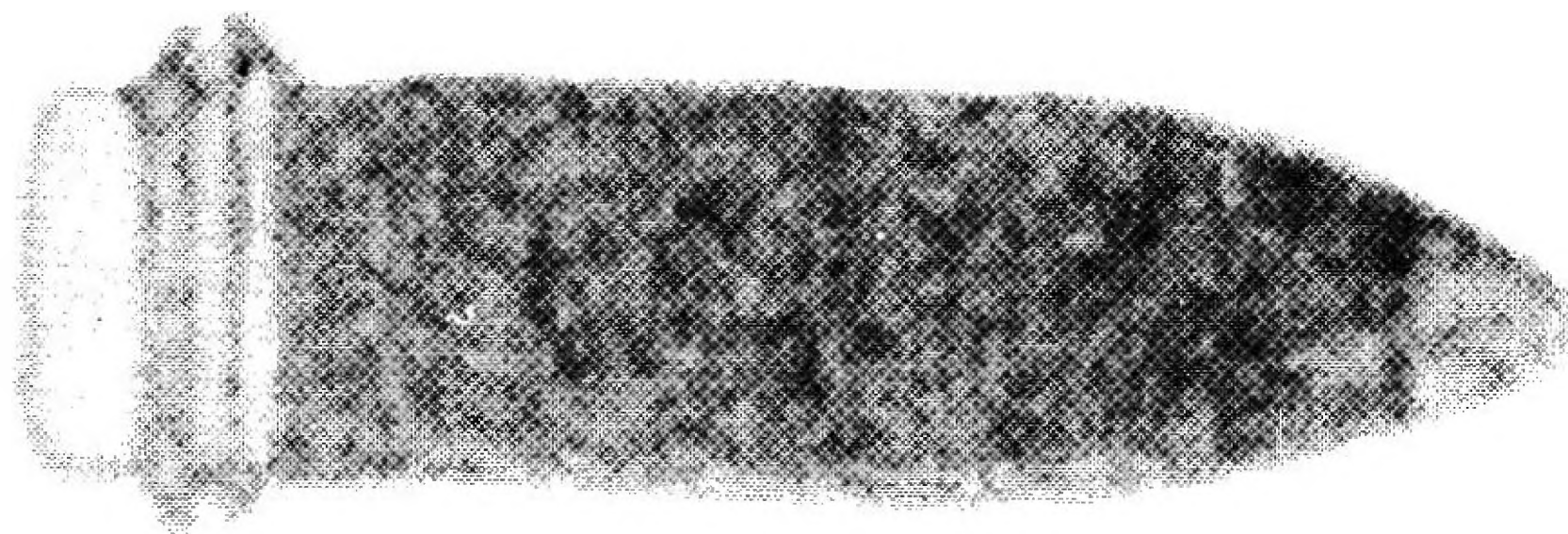
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88, Model 2

Guns Used In: Type 88 12.7 cm 40 cal DP Gun
Type 89 12.7 cm 40 cal DP Gun

Remarks: Fixed ammunition
Used for level firing



Diameter: 127 mm

Designation: Time Practice Projectile

Color and Markings: Yellow nose, black body, white central band, two rows of white dots on ogive.

Projectile Length:

Projectile Length With Fuze:

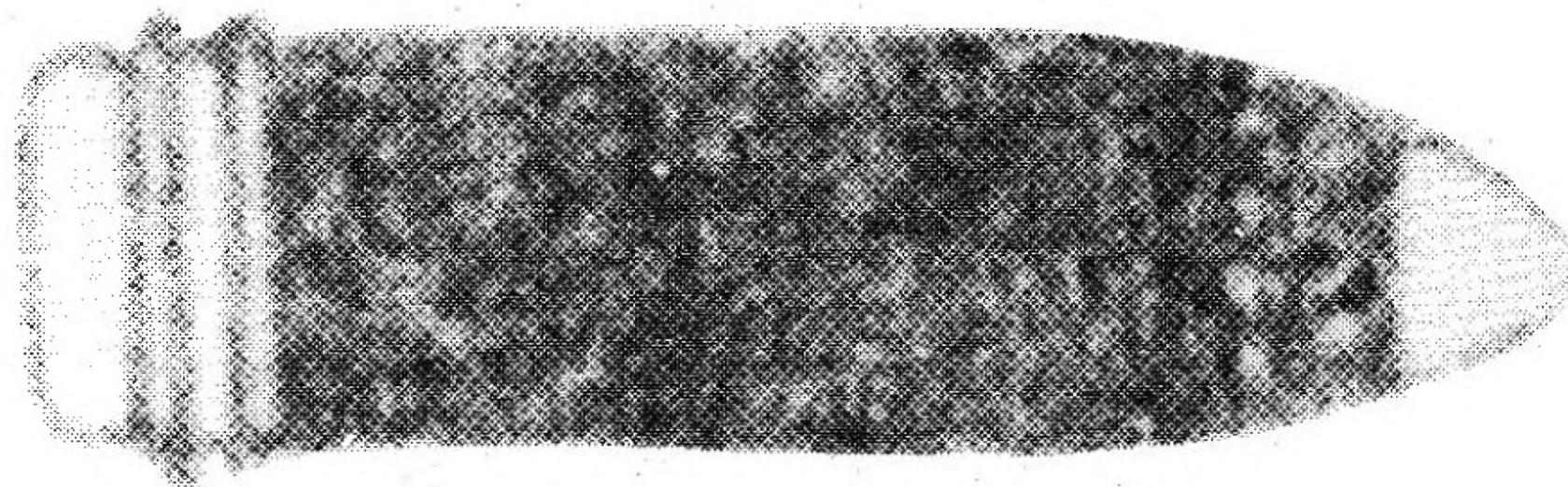
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 91 Time, Modif. 1 (with gear wheel)

Guns Used In: Type 88 12.7 cm 40 cal D. P. Gun
Type 89 12.7 cm 40 cal D. P. Gun

Remarks: Fixed ammunition. Rotating band same as shown for Practice projectile for this gun.
Used for AA firing.



Diameter: 127 mm

Designation: Time Practice Projectile

Color and Markings: Yellow nose, black body, white central band, two rows of white dots on ogive.

Projectile Length:


Projectile Length With Fuze:

Projectile Weight:

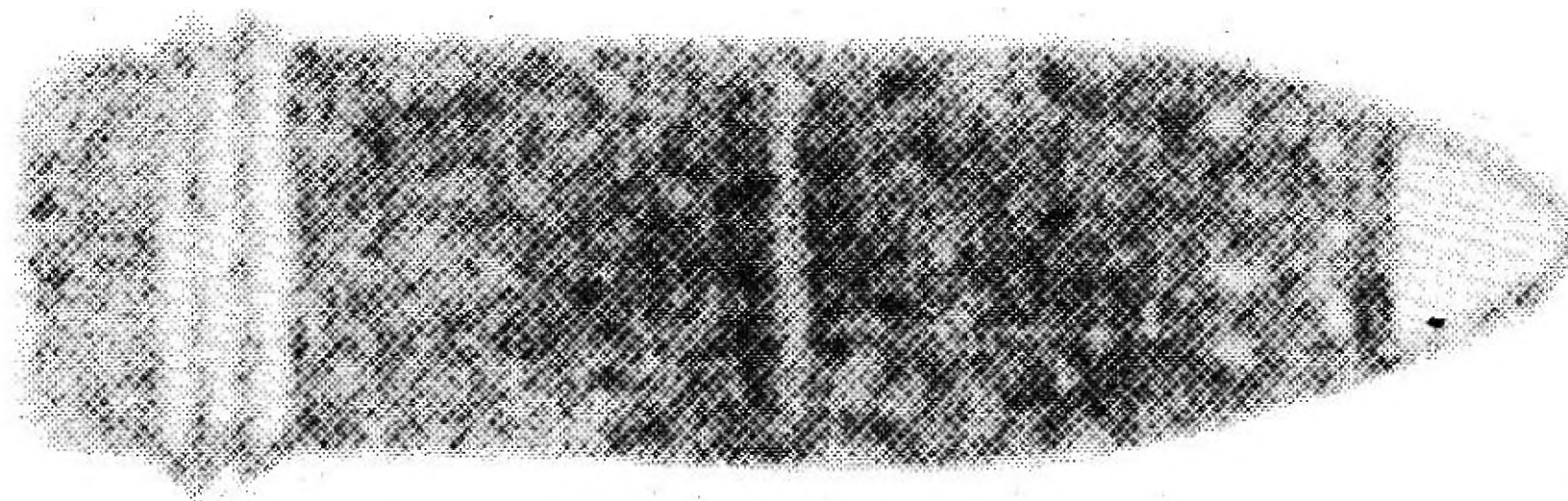
Weight and Type of Filling:

Fuzing:

Guns Used In: 12.7 cm 50 cal Gun

Remarks: Projectiles with an unfilled base plug or without a bursting charge base plate have () stamped into the rotating band.

Rotating band same as shown for Practice projectile for this gun.



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Diameter: 127 mm

Designation: Star Projectile

Color and Markings: Blue body, yellow central band

Projectile Length:

Projectile Length With Fuze:

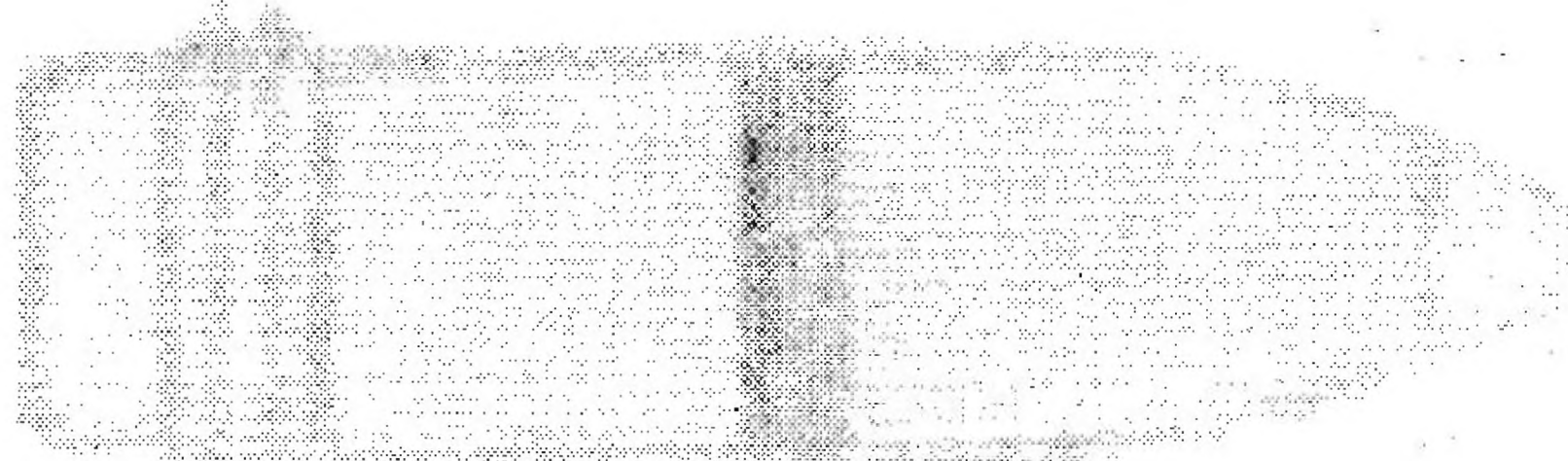
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 12.7 cm 50 cal Gun

Remarks: Rotating band same as shown for Practice
projectile for this gun



Diameter: 127 mm

Designation: Common Projectile

Color and Markings: Rust color

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

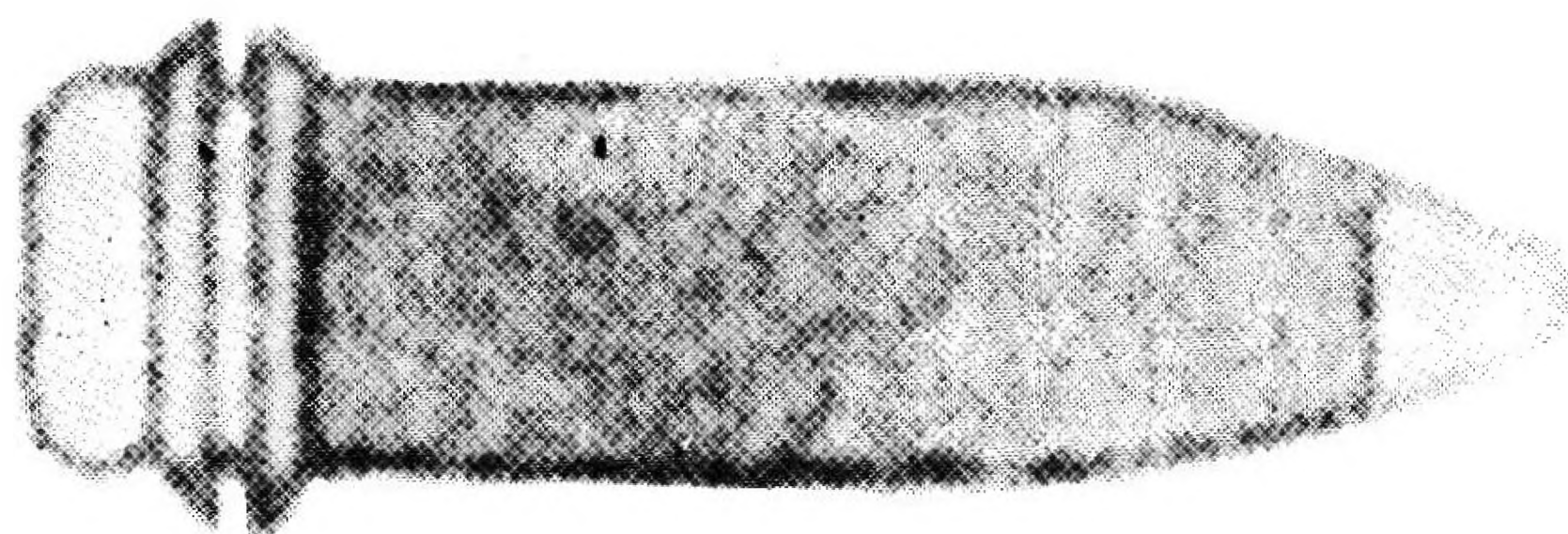
Fuzing: Type 88 Type 88, Modif. 1 Type 88, Model 2
Type 91 Time, Modif. 1 (with gear wheel) Type 4
Temporarily Designated Anti-submarine, Model 2

Guns Used In: Type 88 12.7 cm 40 cal DP Gun
Type 89 12.7 cm 40 cal DP Gun

Remarks: Fixed ammunition

Rotating band same as shown for Practice
projectile for this gun

Type 91 Fuze used for AA firing, Type 88
and Anti-submarine fuzes for level firing, and Type
4 Fuze for both



Diameter: 127 mm

Designation: Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

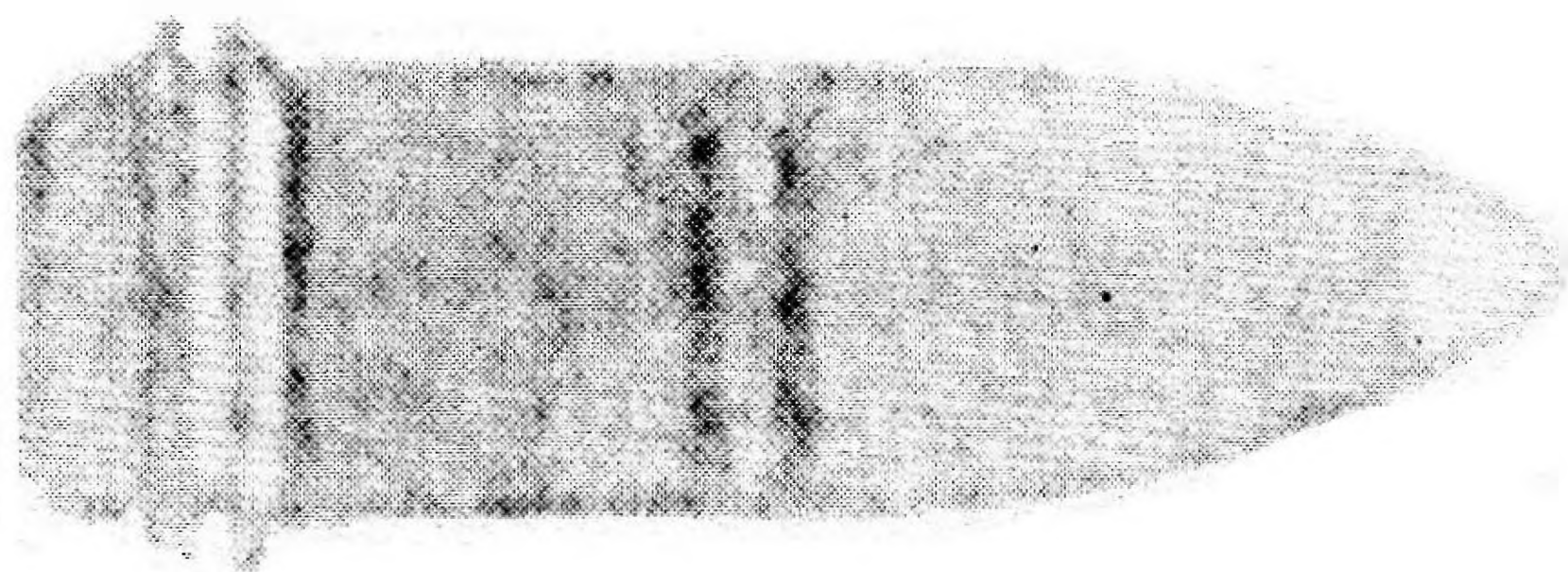
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 88, Modif. 1
Type 88, Model 2

Guns Used In: 12.7 cm 50 cal Gun

Remarks: Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band. Rotating band same as shown for Practice projectile for this gun.



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Diameter: 127 mm

Designation: Common Projectile (Used with specially reduced charge)

Color and Markings: Rust color, yellow central band, (特減用) (vertically) in white on nose-plug.

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

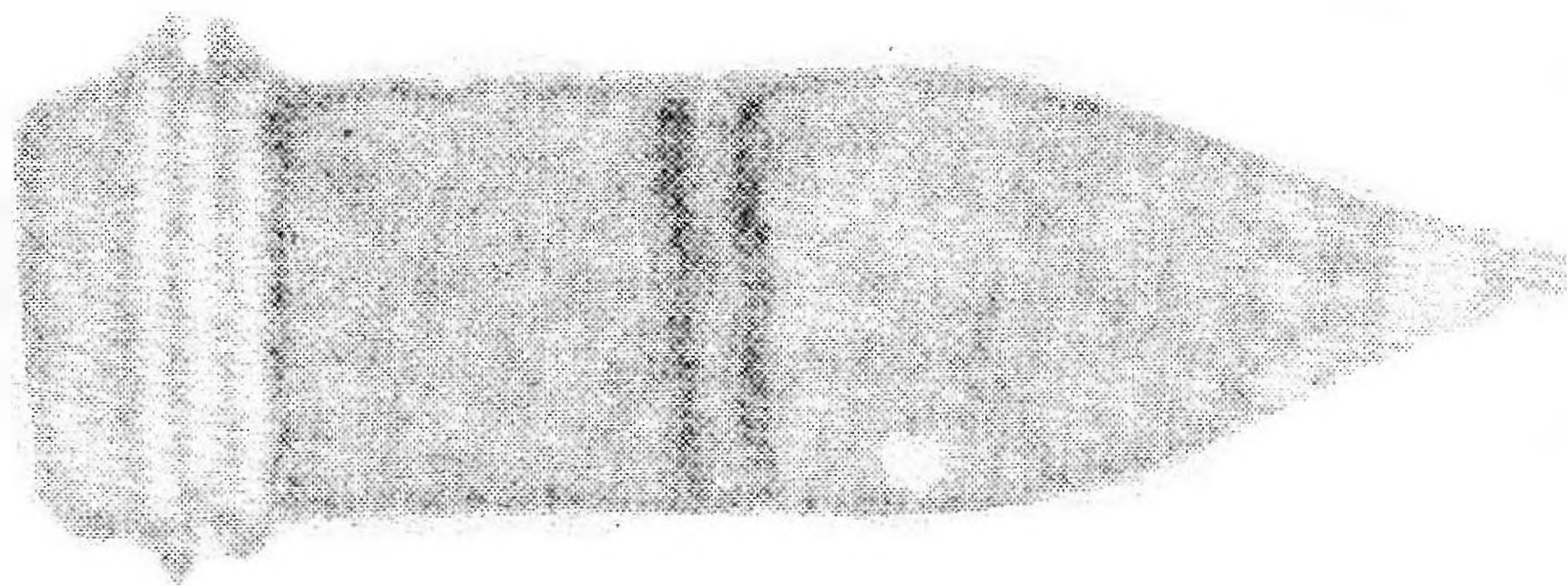
Weight and Type of Filling:

Fuzing:

Guns Used In: 12.7 cm 50 cal Gun

Remarks: Projectiles with an unfilled base plug, or without a bursting charge base plate have (改) stamped into the rotating band.

Rotating band same as shown for Practice projectile for this gun.



Diameter: 140 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze: 543.7 mm

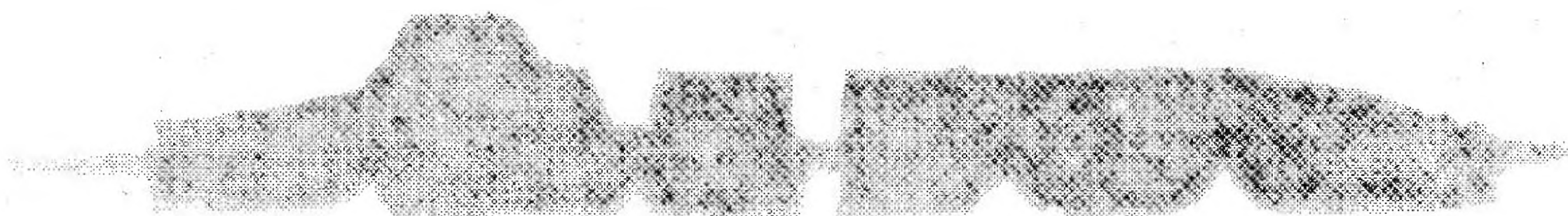
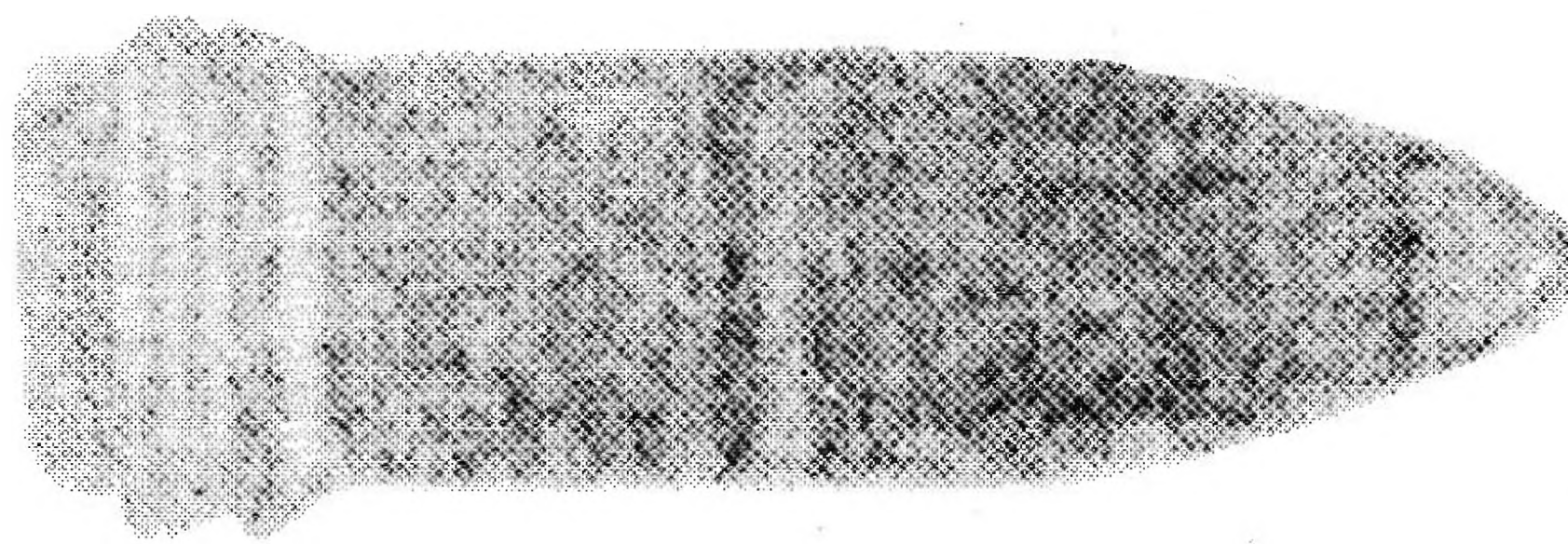
Projectile Weight: 38.00 kg

Weight and Type of Filling:

Fuzing:

Guns Used In: 14 cm 50 cal Gun

Remarks:



Diameter: 140 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, rust color body, yellow central band.

Projectile Length:

Projectile Length With Fuze:

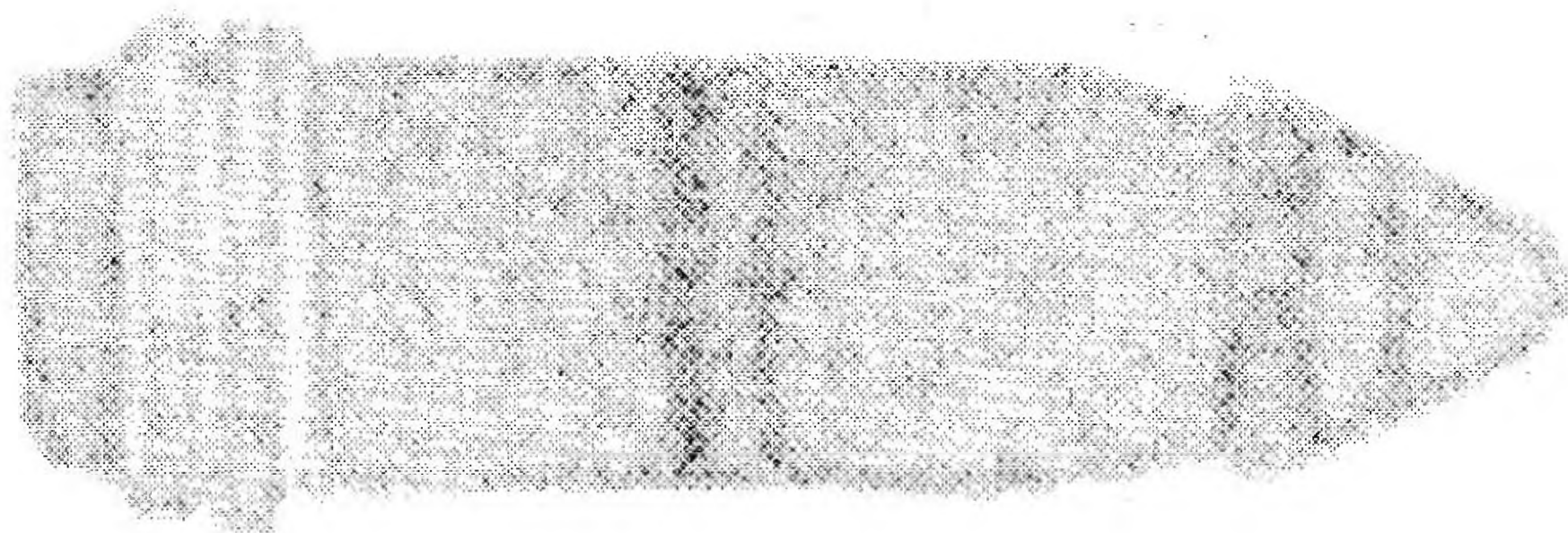
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 14 cm 50 cal Gun

Remarks: Converted from Capped Common projectile
Rotating band same as shown for Practice
projectile for this gun.



Diameter: 140 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

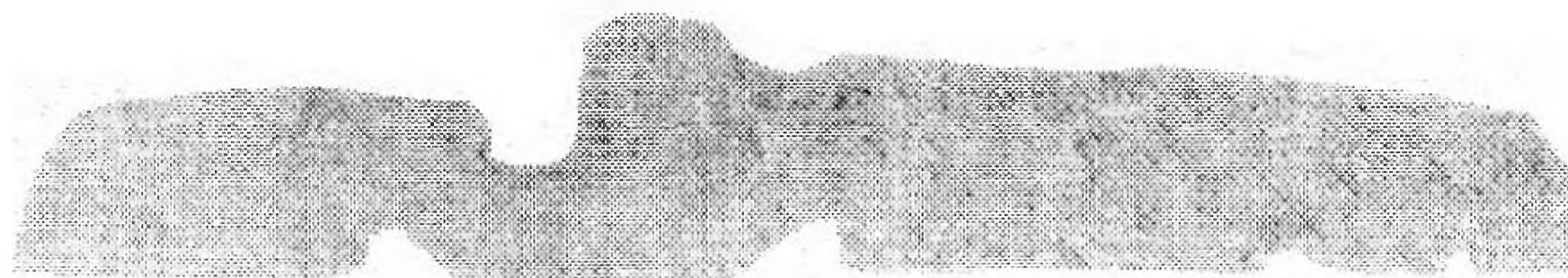
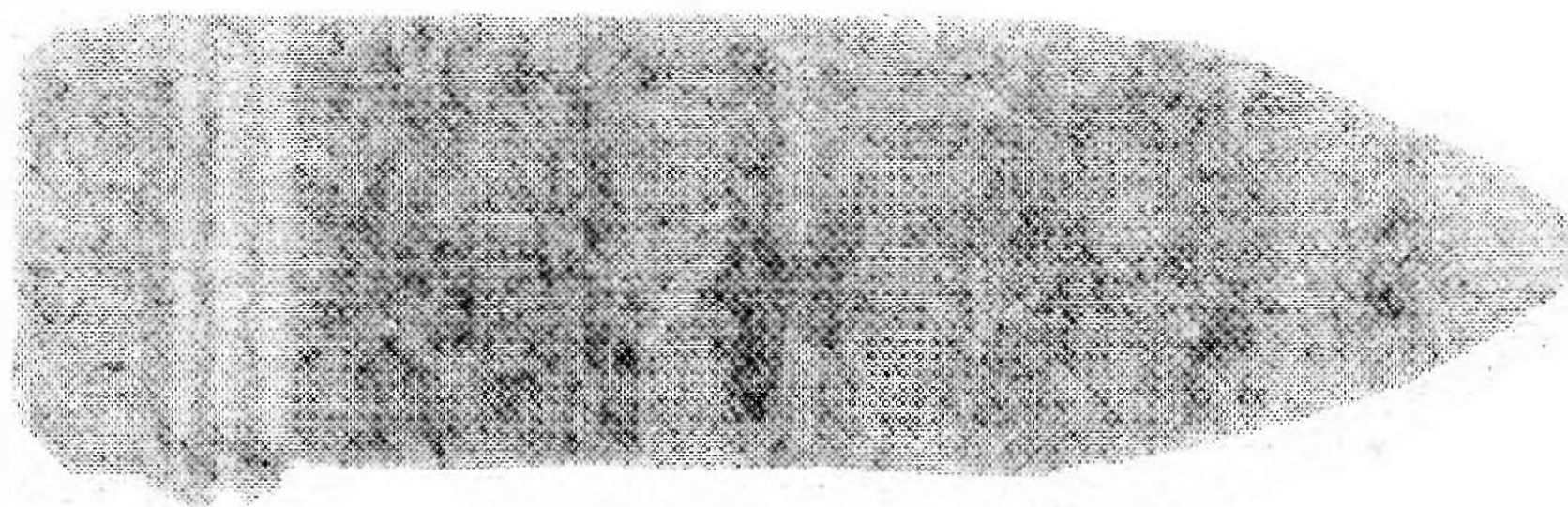
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 14 cm 40 cal Gun

Remarks:



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Diameter: 140 mm

Designation: Star Projectile

Color and Markings: Blue body, yellow central band

Projectile Length:

Projectile Length With Fuze: 542.7 mm

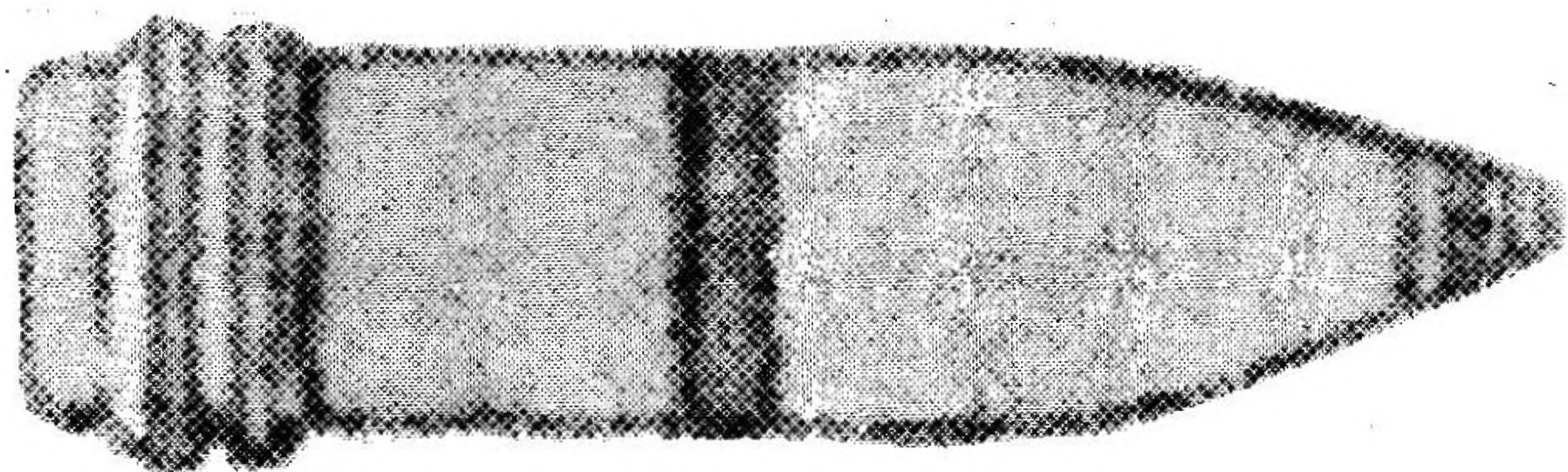
Projectile Weight: 38.00 kg

Weight and Type of Filling:

Fuzing: 30 Second Time

Guns Used In: 14 cm 50 cal Gun

Remarks: Rotating band same as shown for Practice projectile for this gun.



Diameter: 140 mm

Designation: Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

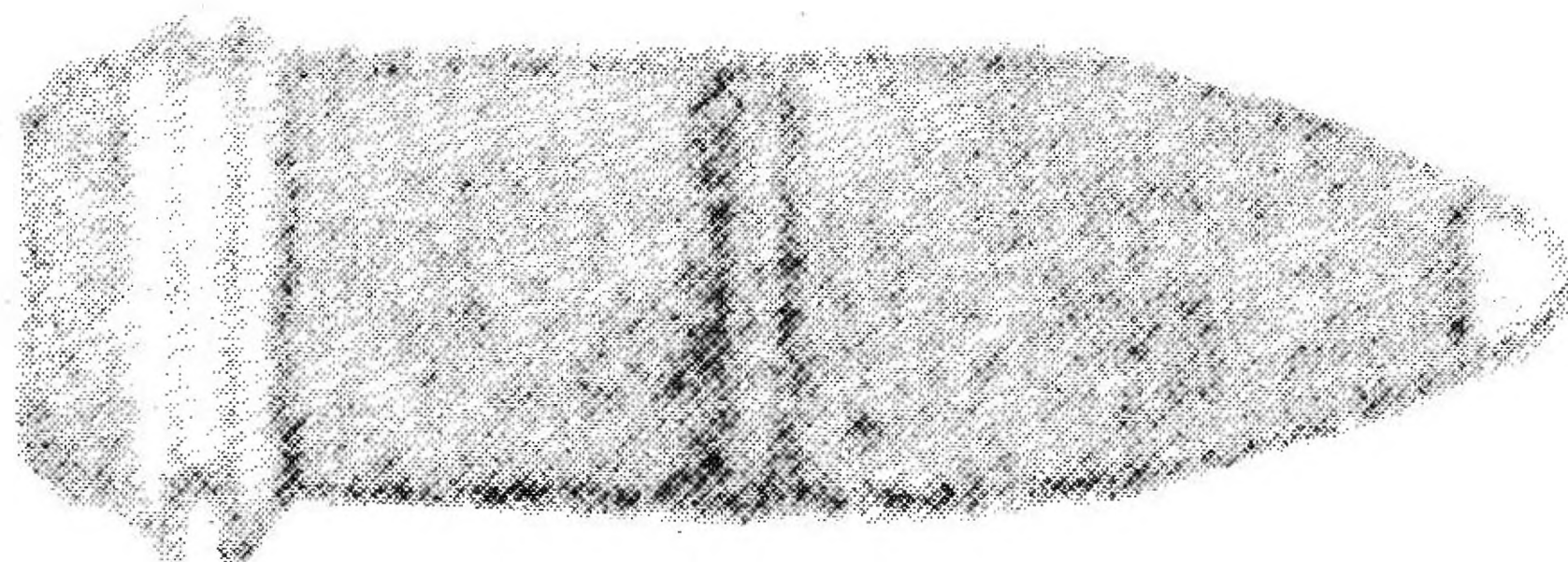
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 2 (TN: Formerly called 5th Year Type Nose Fuze)

Guns Used In: 14 cm 40 cal Gun

Remarks: Rotating band same as shown for Practice projectile for this gun.



Diameter: 140 mm

Designation: Common Projectile, Modif. 1

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 2 (TN: Formerly called 5th Year Type
Nose Fuze)

Guns Used In: 14 cm 40 cal Gun

Remarks:

Diameter: 140 mm

Designation: Common Projectile (Used with specially reduced charge)

Color and Markings: Rust color, yellow central band, (特減用) (vertically) in white on the ogive.

Projectile Length:

Projectile Length With Fuze: 598.55 mm

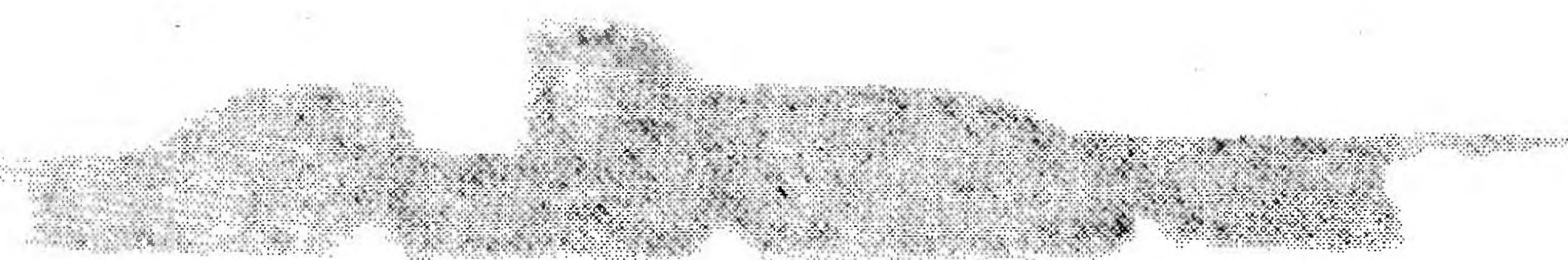
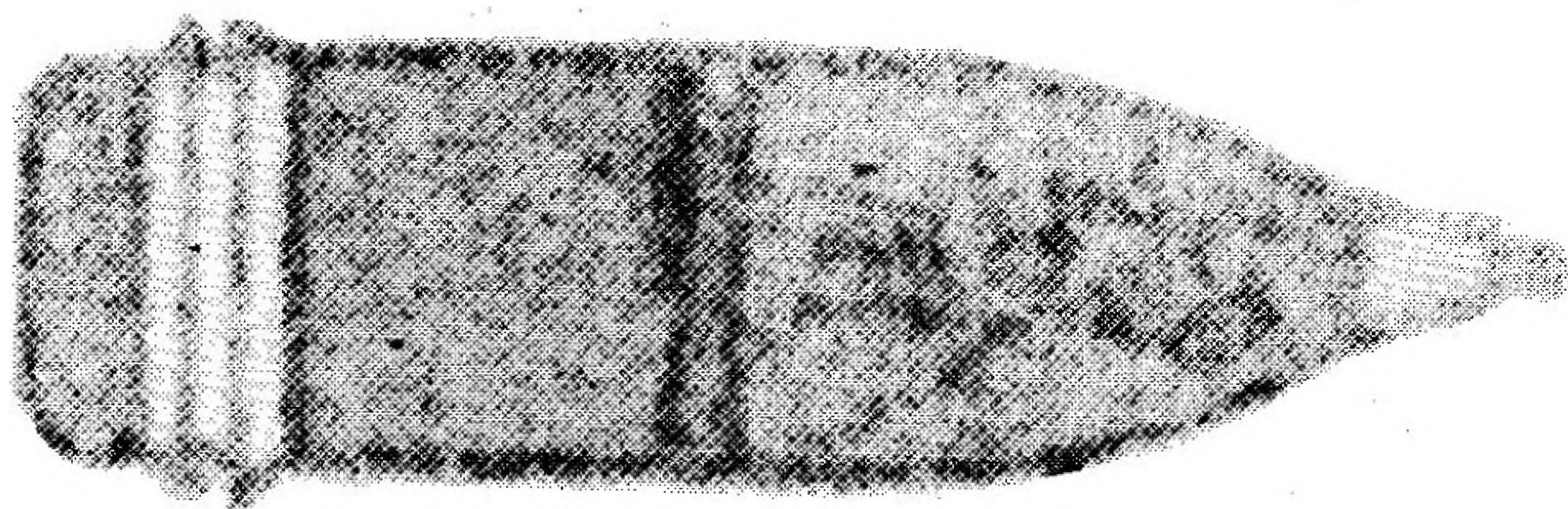
Projectile Weight: 38.00 kg

Weight and Type of Filling: 2.7 kg

Fuzing: Type 92 Specially Reduced

Guns Used In: 14 cm 50 cal Gun

Remarks: Projectiles with an unfilled base plug or without a bursting charge base plate have (改) stamped into the rotating band. (特減) (vertically) painted on the base.



Diameter: 140 mm

Designation: Capped Common Projectile, Modif. 1

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze: 552.7 mm

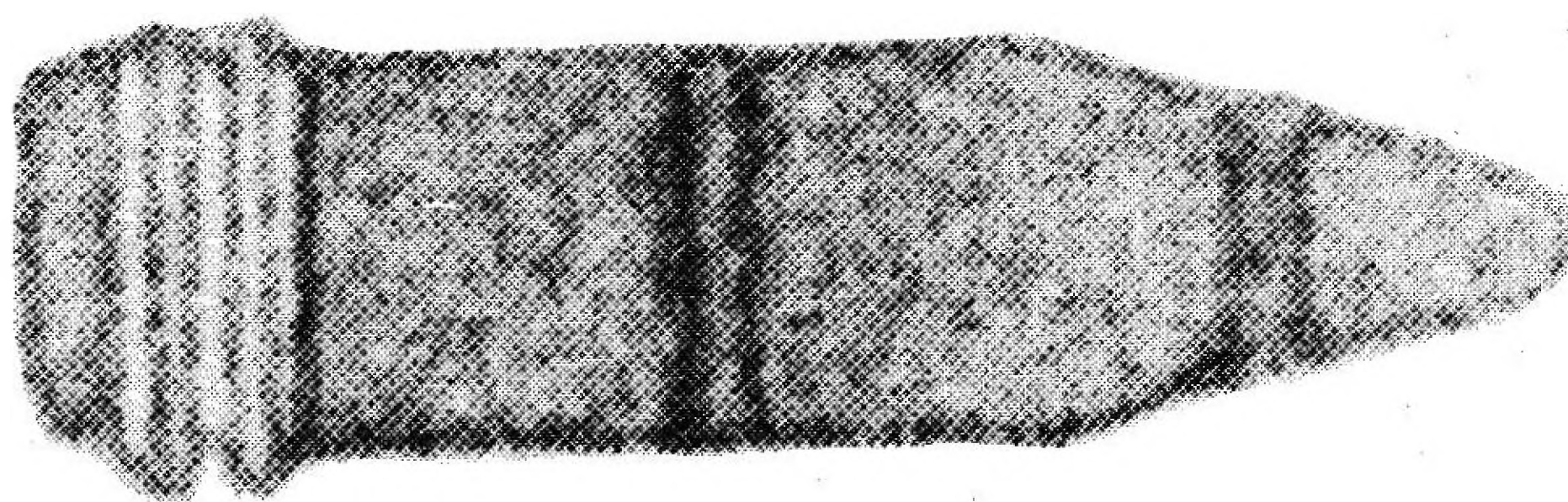
Projectile Weight: 38.380 kg

Weight and Type of Filling:

Fuzing: Type 13 Mk. 1, Modif. 1

Guns Used In: 14 cm 50 cal Gun

Remarks: (⊖) is stamped into the rotating band
Rotating band same as shown for Practice
projectile for this gun.



Diameter: 140 mm

Designation: Capped Common Projectile Modif. 2

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze: 552.7 mm

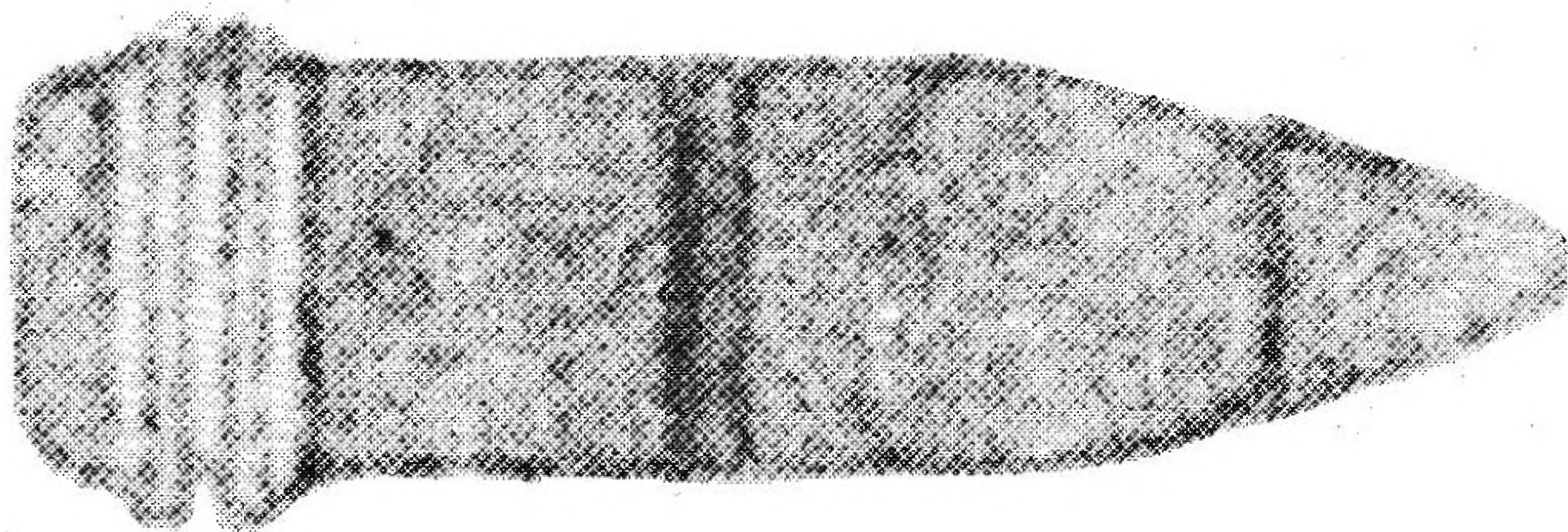
Projectile Weight: 38.00 kg

Weight and Type of Filling:

Fuzing: Type 13 Mk. 1, Modif. 1

Guns Used In: 14 cm 50 cal Gun

Remarks: (改二) (vertically) is stamped into the rotating band. Rotating band same as shown for Practice projectile for this gun.



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Diameter: 140 mm

Designation: Mk. 1 Common Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 13 Mk. 1, Modif. 1

Guns Used In: 14 cm Gun

Remarks:

Diameter: 150 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body, white central band

Projectile Length:

Projectile Length With Fuze:

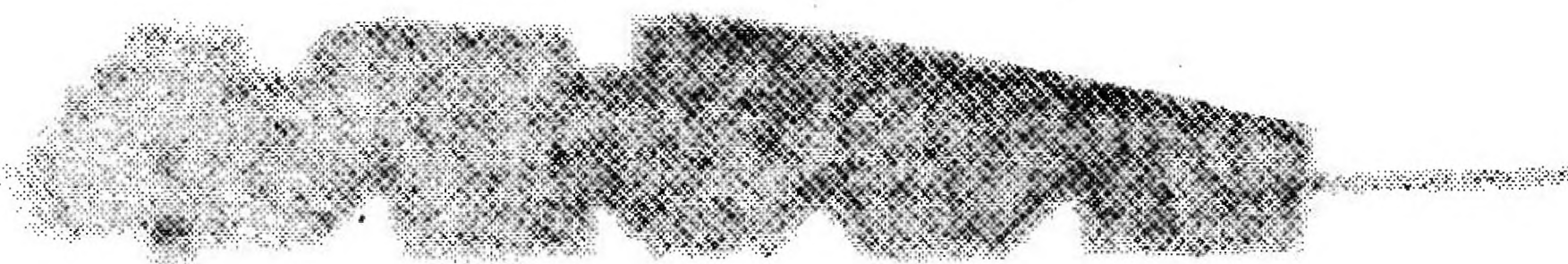
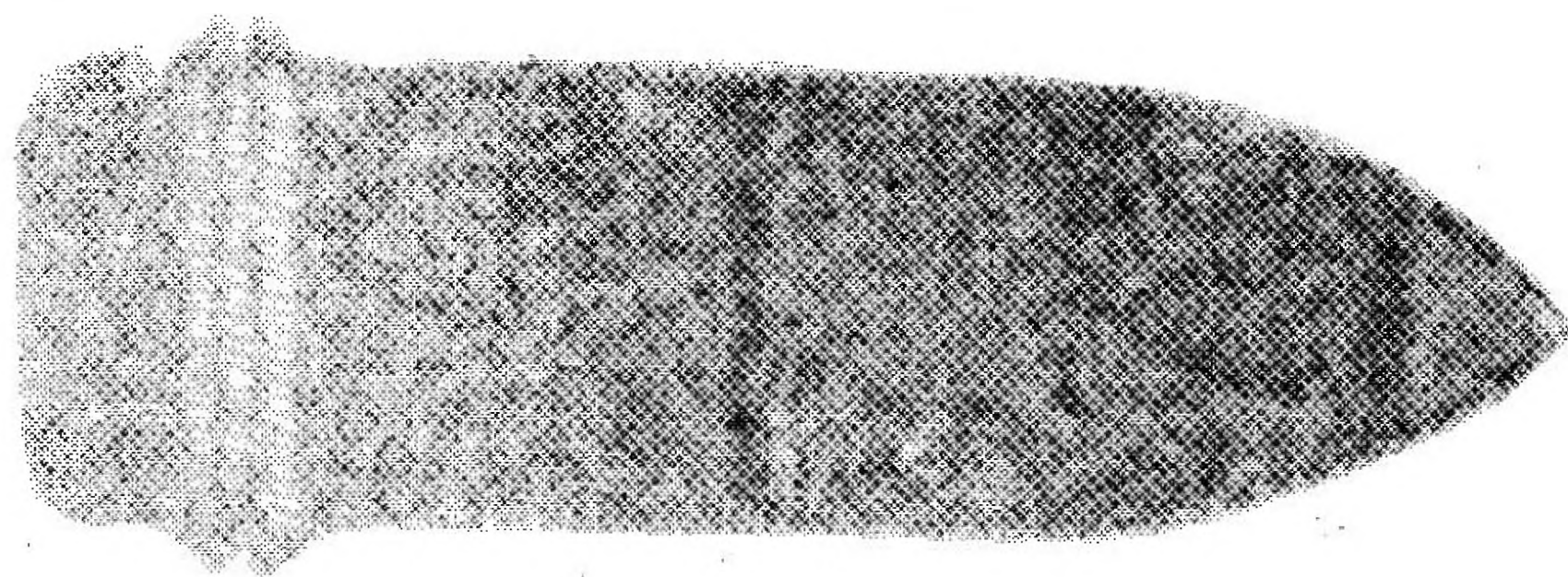
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun (英)

Remarks: The character in the gun designation may mean that fixed or semi-fixed ammunition can be used.



Diameter: 150 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, rust color body, yellow
central band

Projectile Length:

Projectile Length With Fuze:

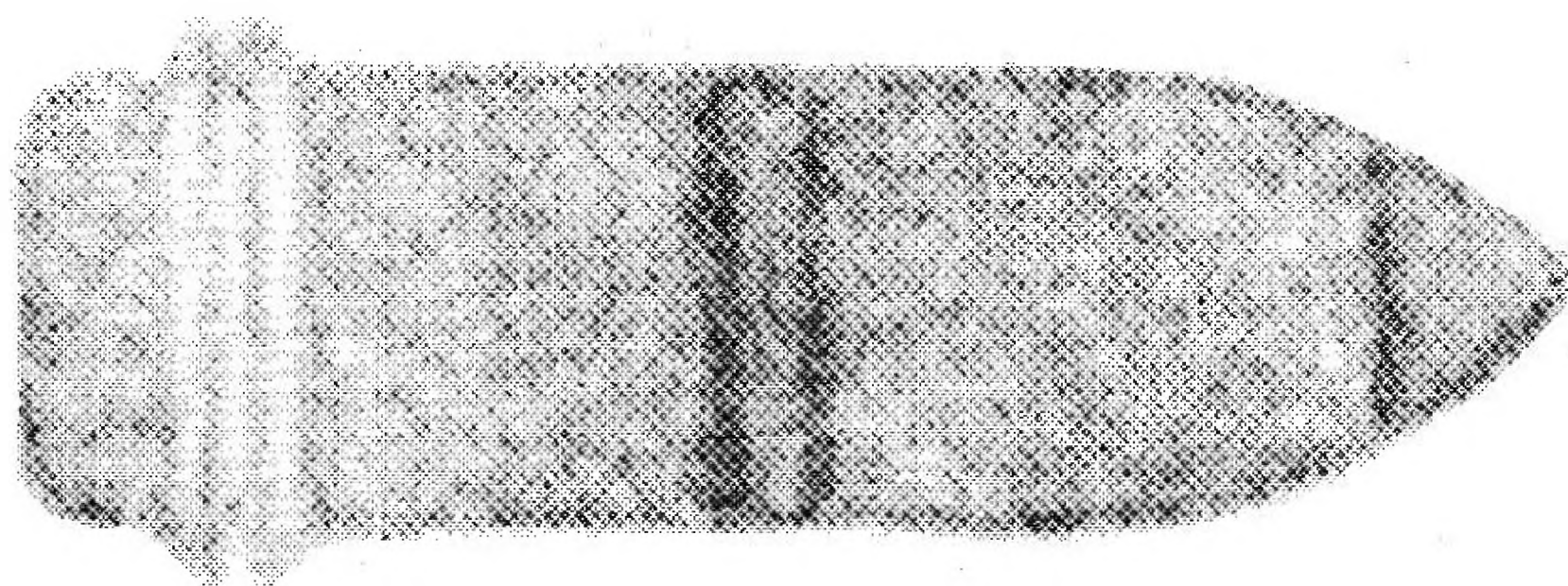
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun (英)

Remarks: Converted from a Common Projectile
Rotating band same as shown for the Practice
projectile for this gun.
The character in the gun designation may mean
that fixed or semi-fixed ammunition can be used.



Diameter: 150 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

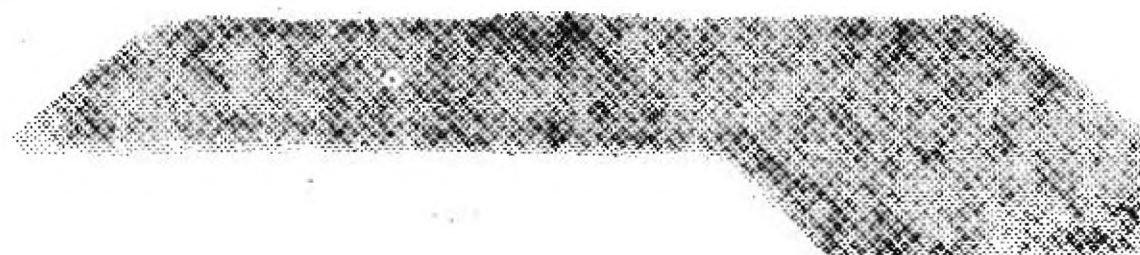
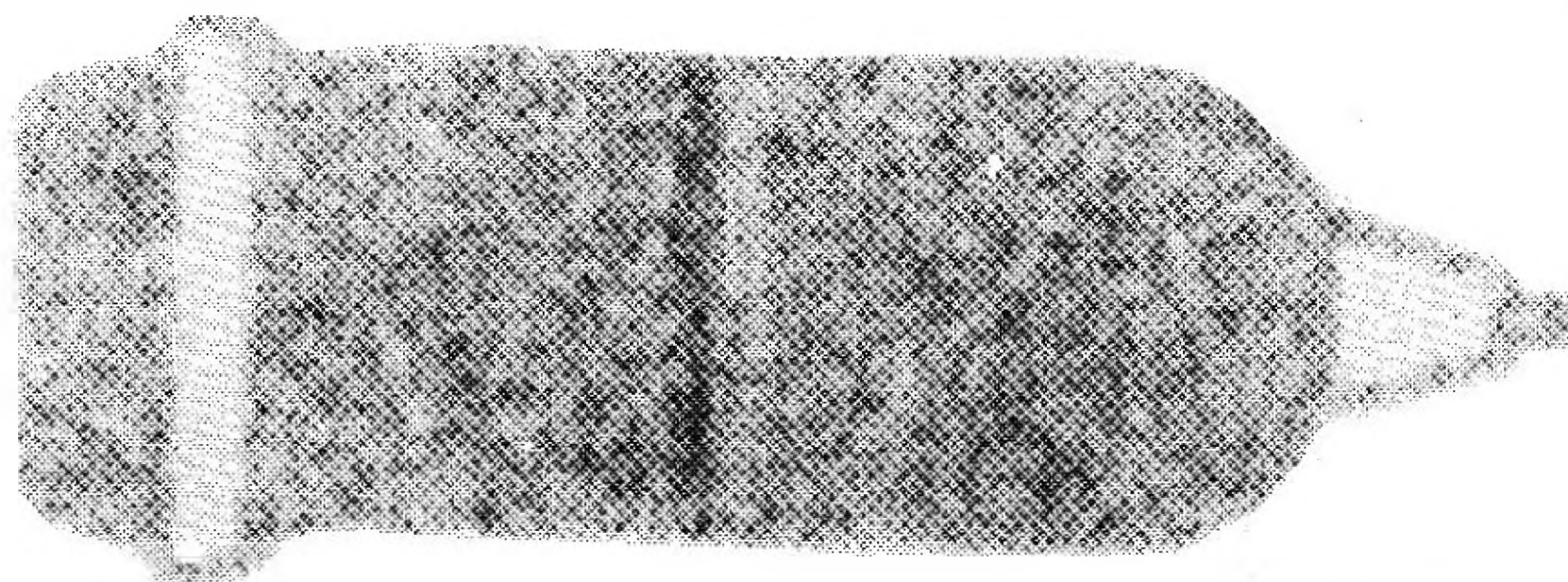
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm Mortar

Remarks:



Diameter: 150 mm

Designation: Mk. 1 Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

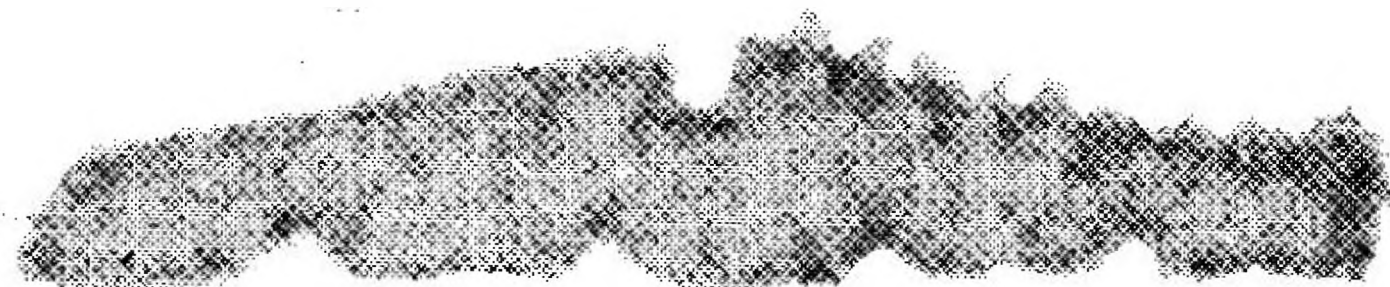
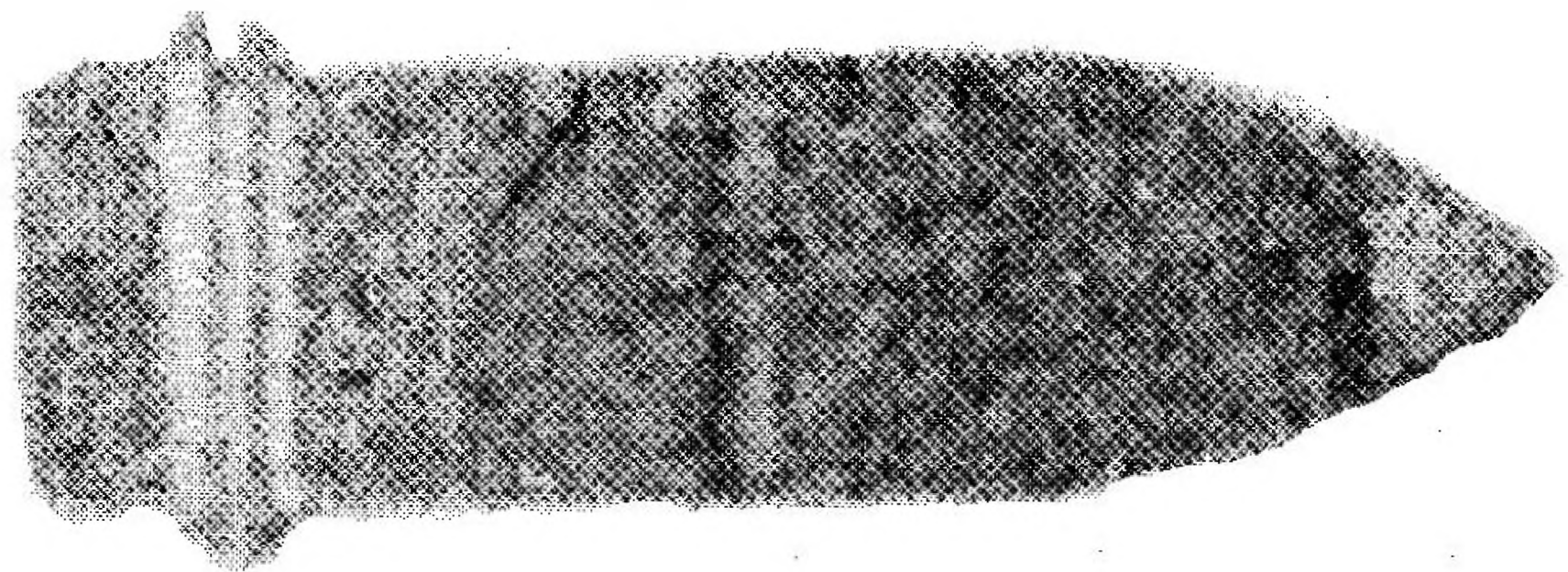
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40-cal Gun
15 cm 45 cal Gun
5 cm 50 cal Gun

Remarks: Ogive radius of 2 caliber



Diameter: 150 mm

Designation: Mk. 2 Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

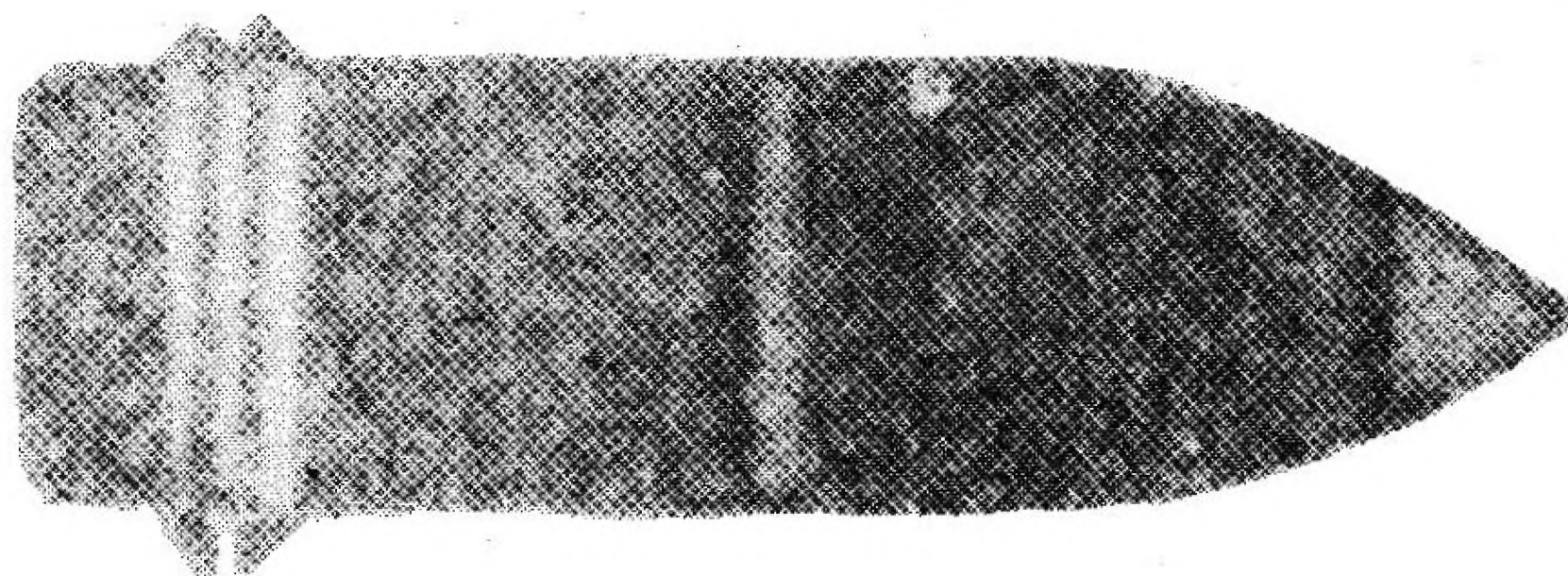
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun
15 cm 45 cal Gun
15 cm 50 cal Gun

Remarks: Rotating band same as shown for Mk. 1 Practice
projectile for these guns.
Ogive radius of 6 caliber



Diameter: 150 mm

Designation: Mk. 3 Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

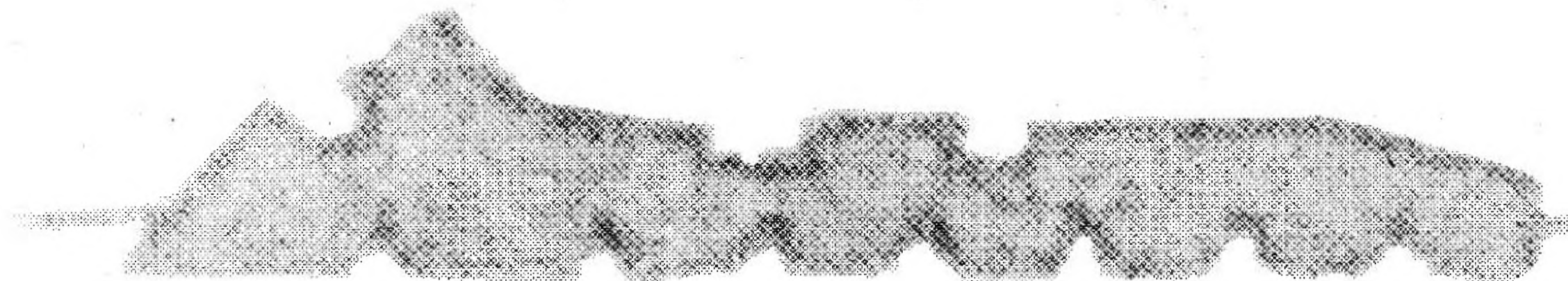
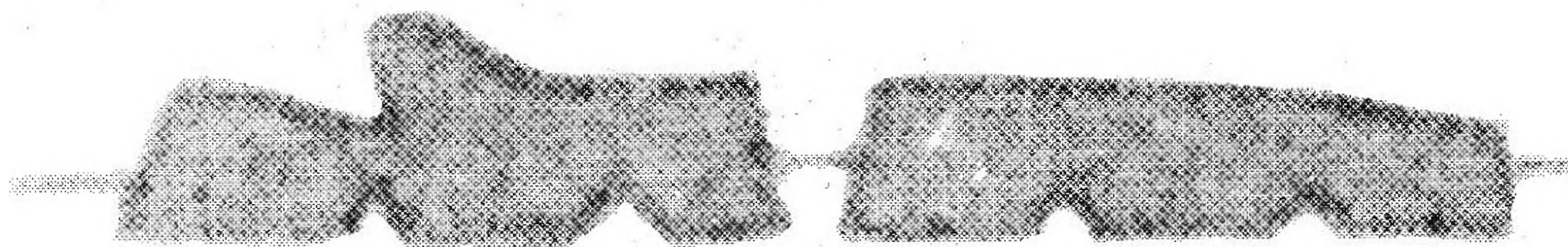
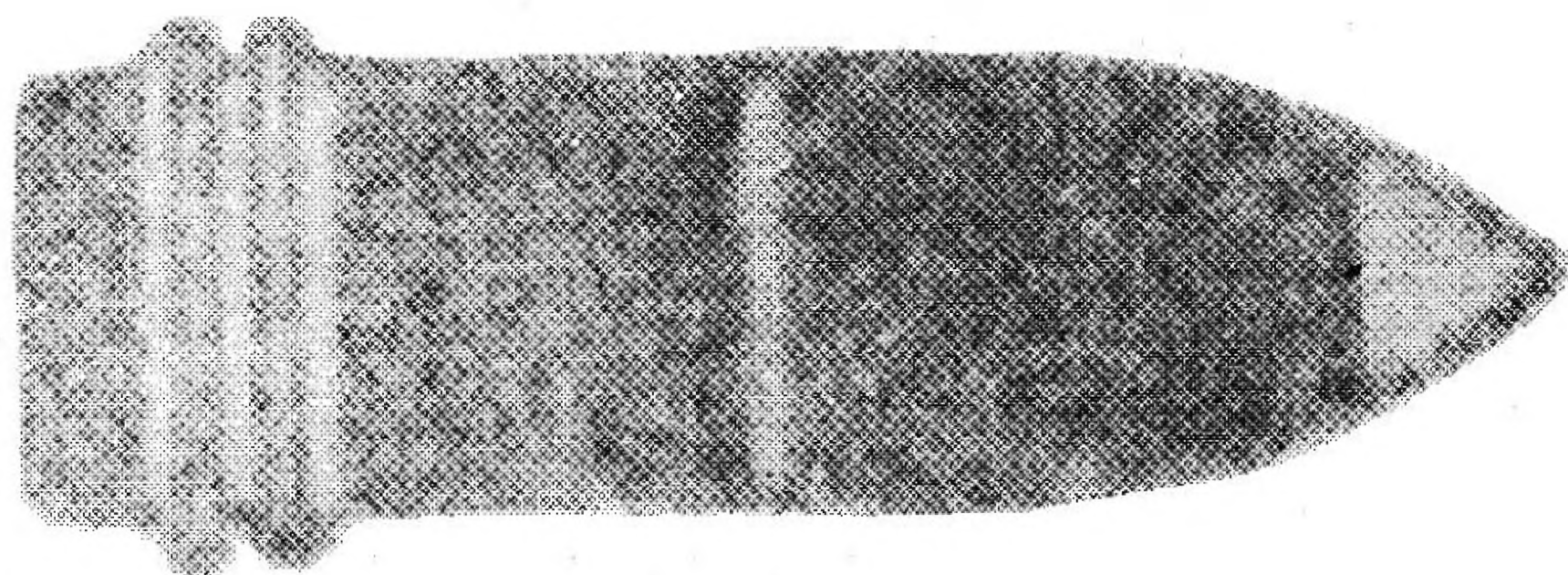
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun
15 cm 45 cal Gun
15 cm 50 cal Gun

Remarks:



Diameter: 150 mm

Designation: Mk. 3 Practice Projectile

Color and Markings: Yellow nose, rust color body, yellow
central band

Projectile Length:

Projectile Length With Fuze:

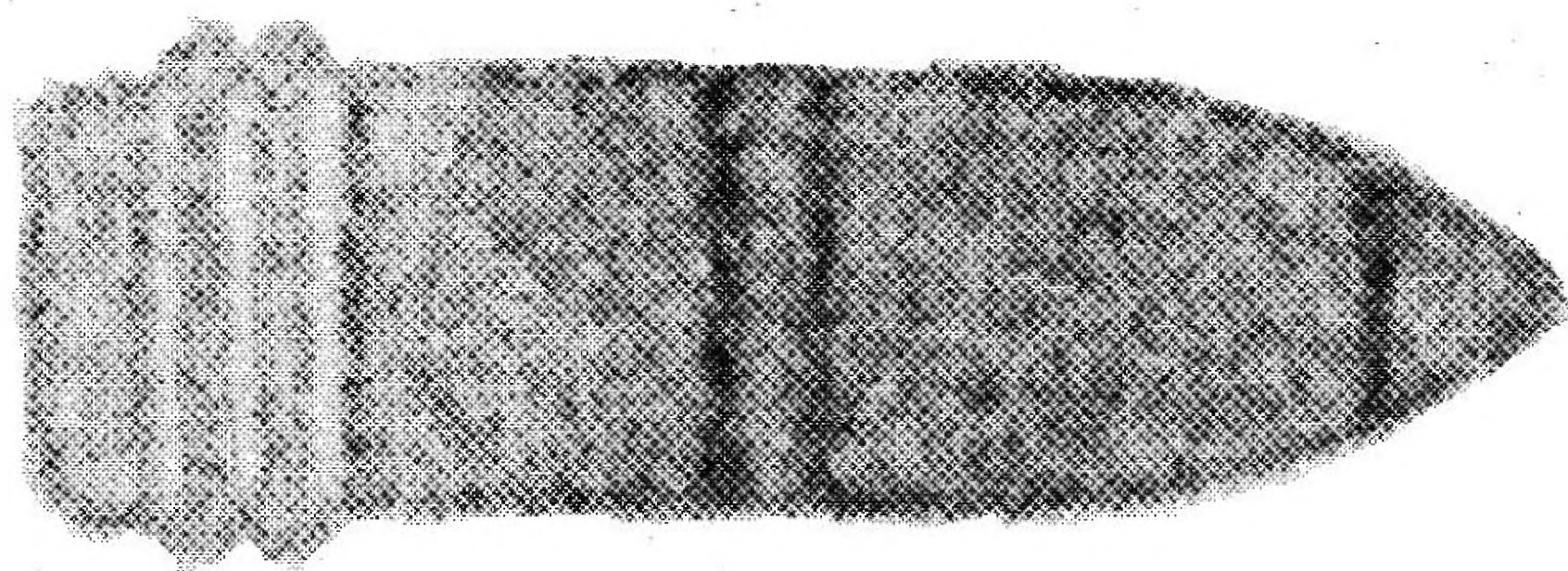
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun
15 cm 45 cal Gun
15 cm 50 cal Gun

Remarks: Converted from Mk. 3 Common projectile
Rotating bands same as shown for Mk. 3 Practice
projectile for these guns.



Diameter: 150 mm

Designation: Mk. 4 Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

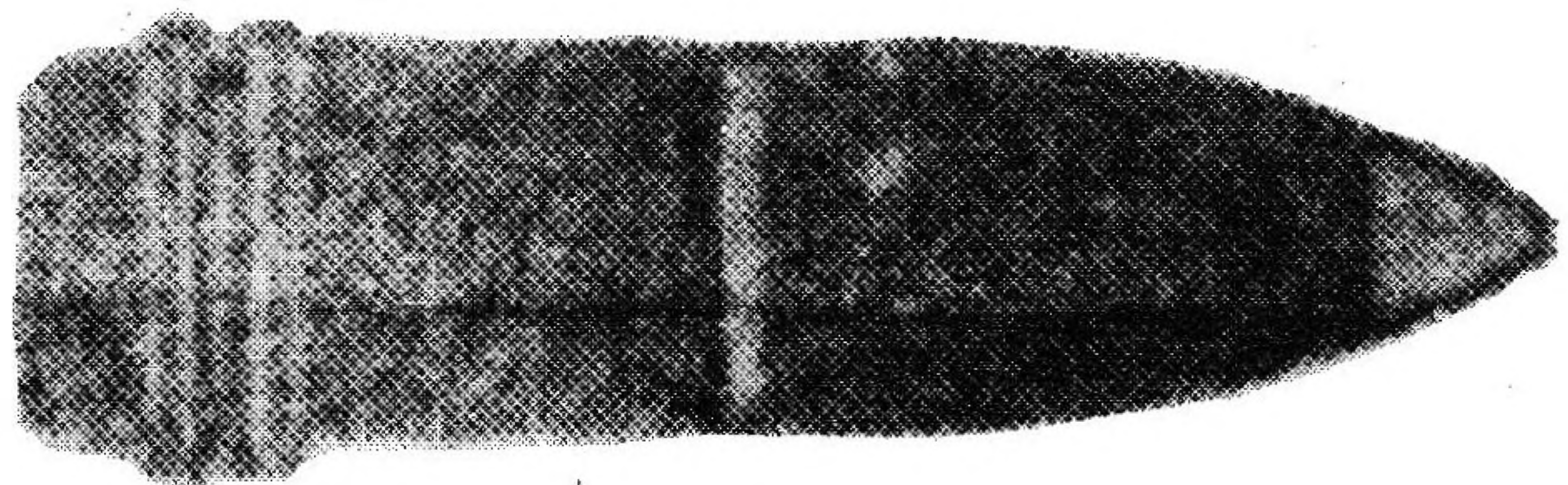
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun
15 cm 45 cal Gun
15 cm 50 cal Gun

Remarks:



Diameter: 150 mm

Designation: Star Projectile

Color and Markings: Blue body, yellow central band

Projectile Length:

Projectile Length With Fuze:

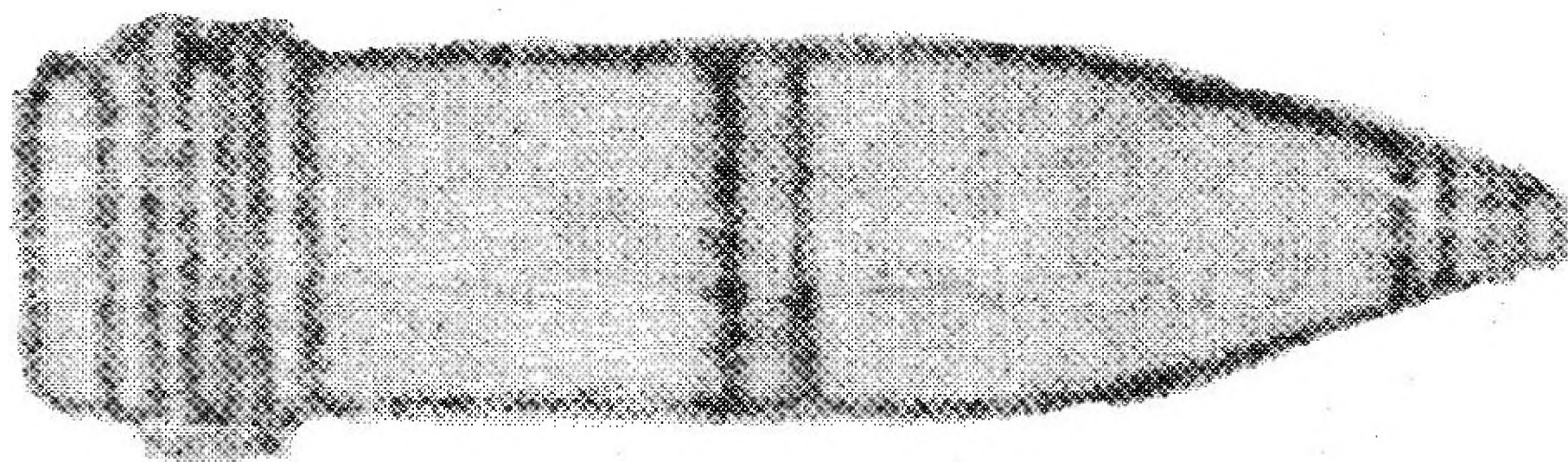
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun
15 cm 45 cal Gun
15 cm 50 cal Gun

Remarks:



Diameter: 150 mm

Designation: Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

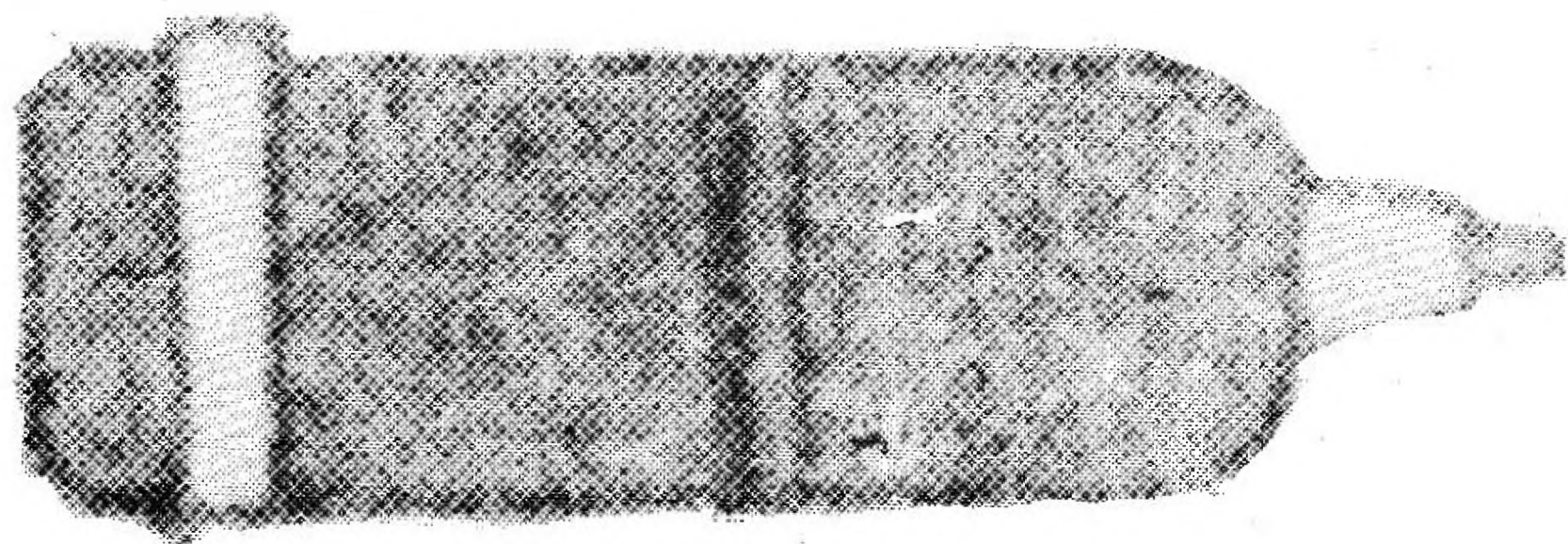
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm Mortar

Remarks: Rotating band same as shown for Practice
projectile for this mortar



Diameter: 150 mm

Designation: Common Projectile, Modif. 1

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

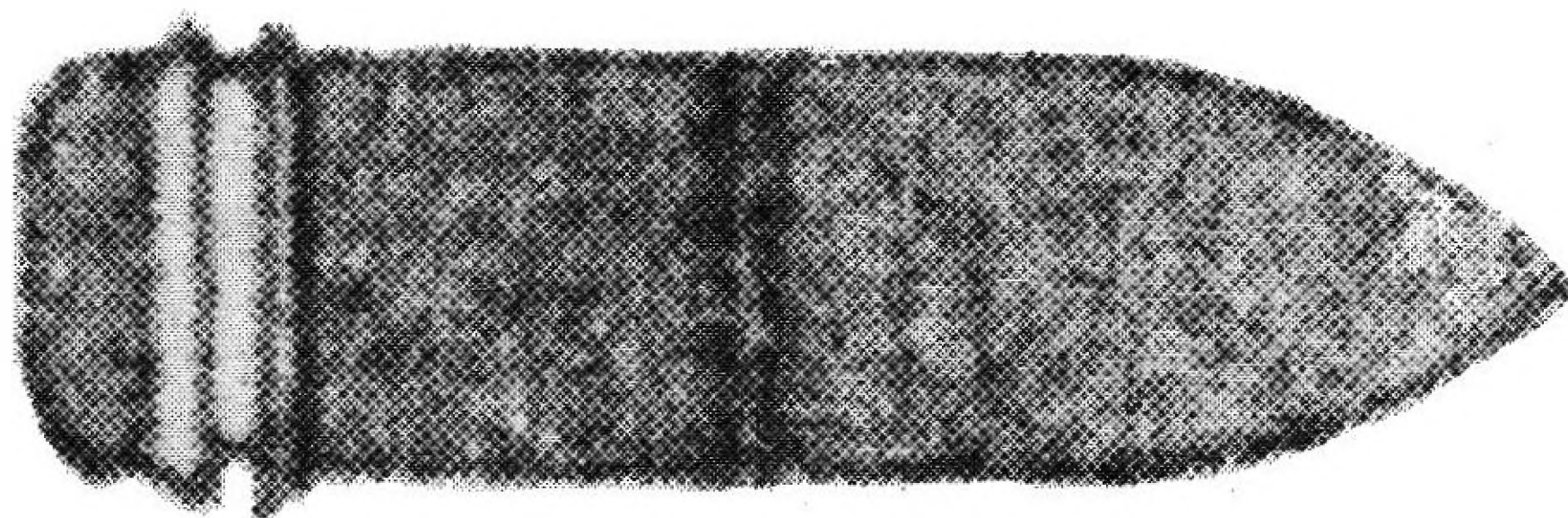
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 13 Mk. 1, Modif. 1

Guns Used In: 15 cm 40 cal Gun (英)

Remarks: ⊖ is stamped into the rotating band. Rotating band same as shown for Practice projectile for this gun. The character in the gun designation may mean that fixed or semi-fixed ammunition can be used.



Diameter: 150 mm

Designation: Common Projectile, Modif. 2

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

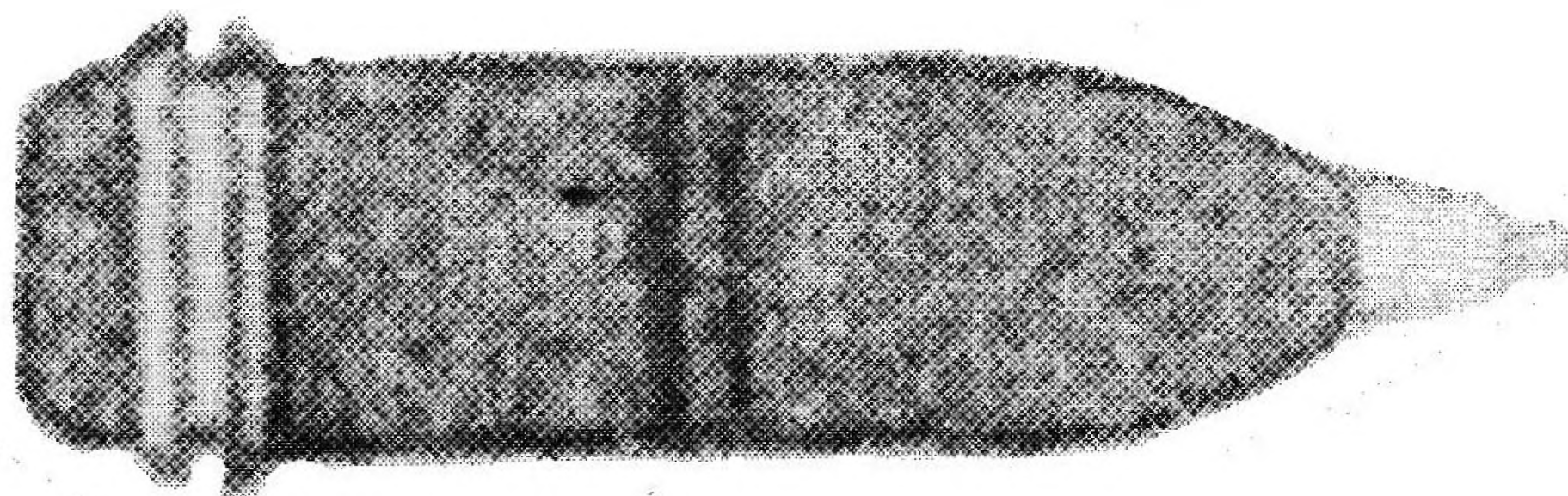
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun (英)

Remarks: (改 二) (vertically) is stamped into the rotating band. Rotating band same as shown for Practice projectile for this gun. The character in the gun designation may mean that fixed or semi-fixed ammunition can be used.



Diameter: 150 mm

Designation: Mk. 1 Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

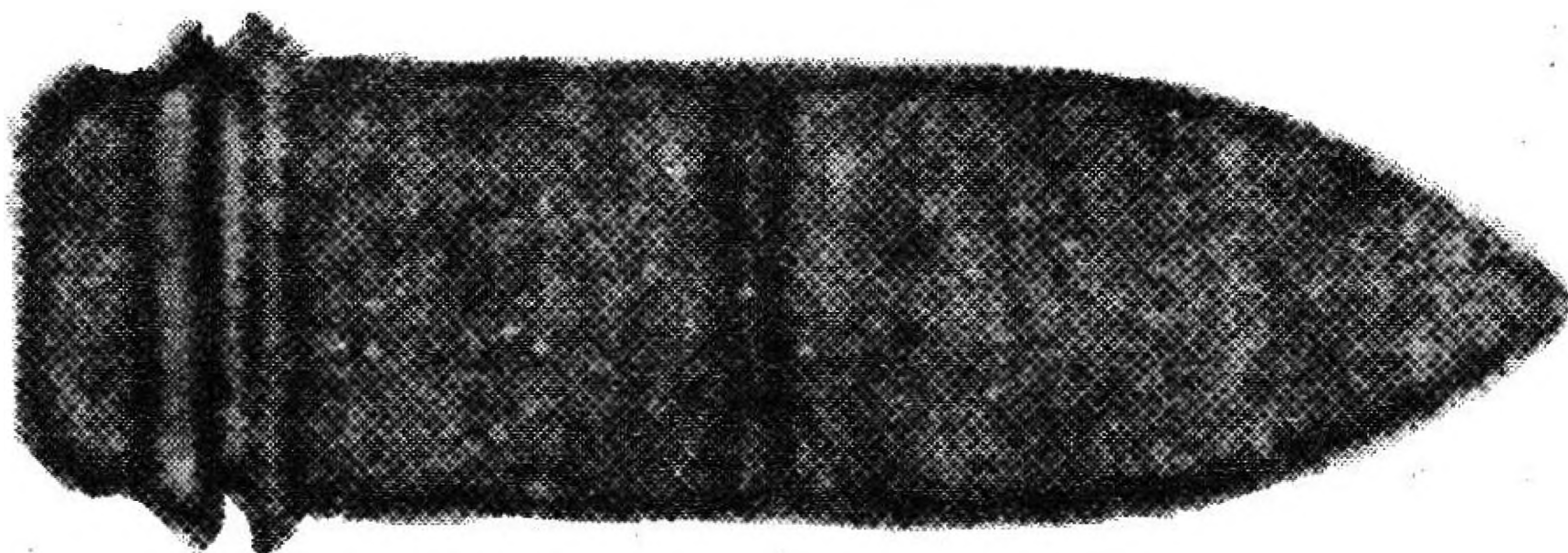
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun
15 cm 45 cal Gun
15 cm 50 cal Gun

Remarks. Rotating band same as shown for Mk. 1 Practice
projectile for these guns
Ogive radius of 2 caliber



Diameter: 150 mm

Designation: Mk. 2 Common Projectile, Modif. 1

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

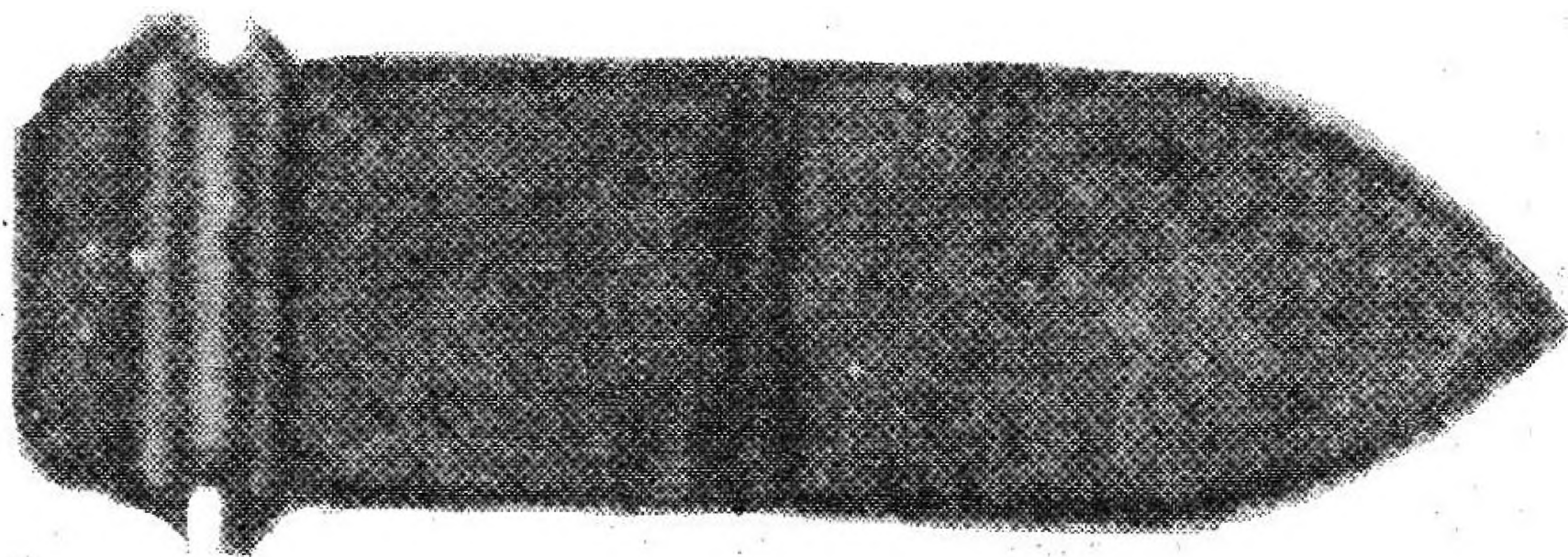
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun
15 cm 45 cal Gun
15 cm 50 cal Gun

Remarks: ⊖ is stamped into the rotating band.
Rotating band same as shown for Mk. 1 Practice
projectile for these guns.
Ogive radius of 6 caliber.



Diameter: 150 mm

Designation: Mk. 2 Common Projectile, Modif. 2

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

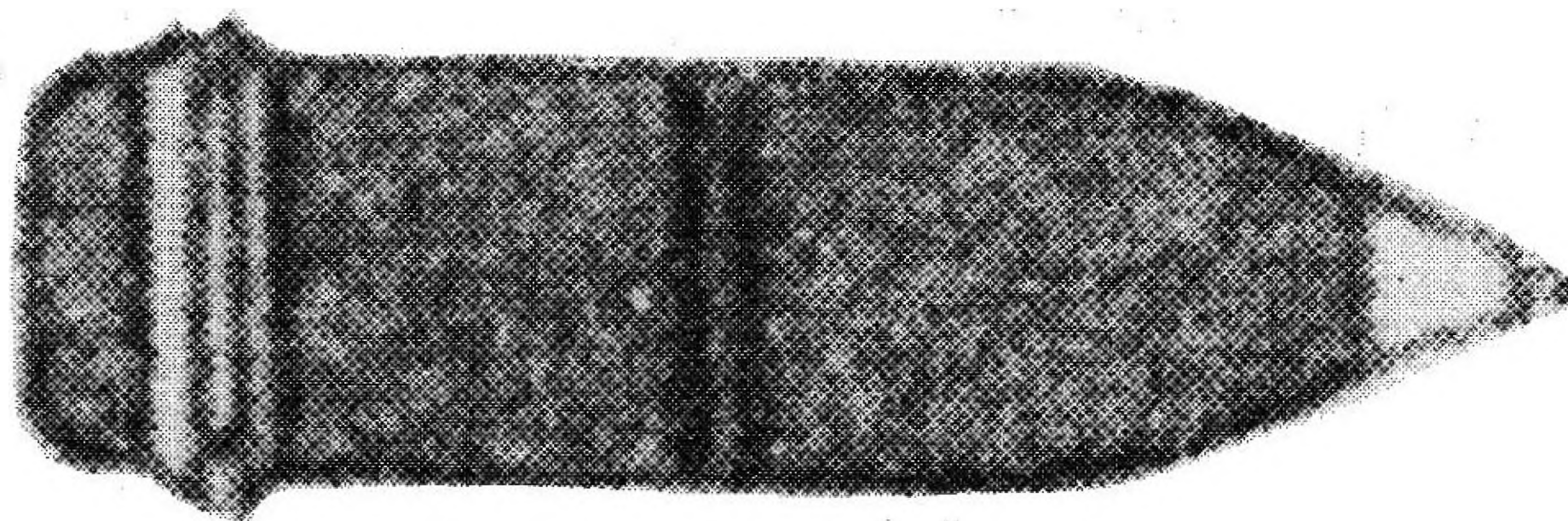
Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun
15 cm 45 cal Gun
15 cm 50 cal Gun

Remarks: (改二) (vertically) is stamped into the rotating band.

Rotating band same as shown for Mk. 1 Practice projectile for these guns. Ogive radius of .6 caliber.



Diameter: 150 mm

Designation: Mk. 3 Common Projectile, Modif. 1

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

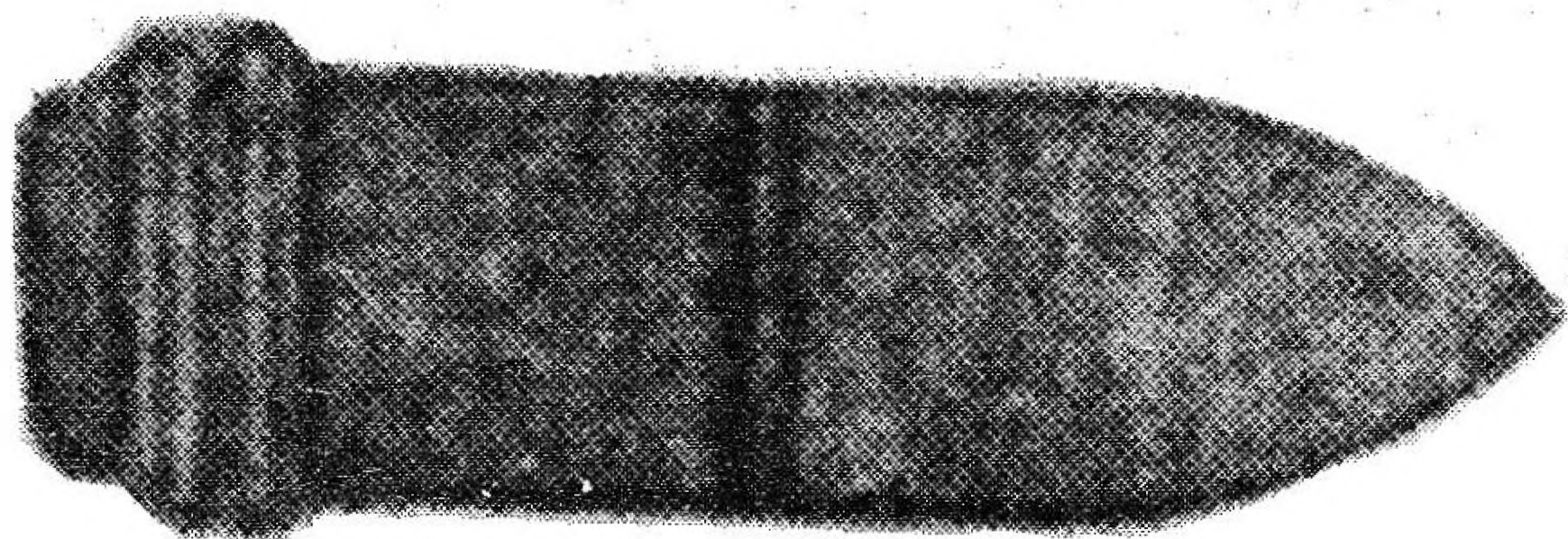
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 13 Mk. 1, Modif. 1

Guns Used In: 15 cm 40 cal Gun
15 cm 45 cal Gun
15 cm 50 cal Gun

Remarks: ⊖ is stamped into the rotating band
Rotating bands same as shown for Mk. 3 Practice
projectile for these guns.



Diameter: 150 mm

Designation: Mk. 4 Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

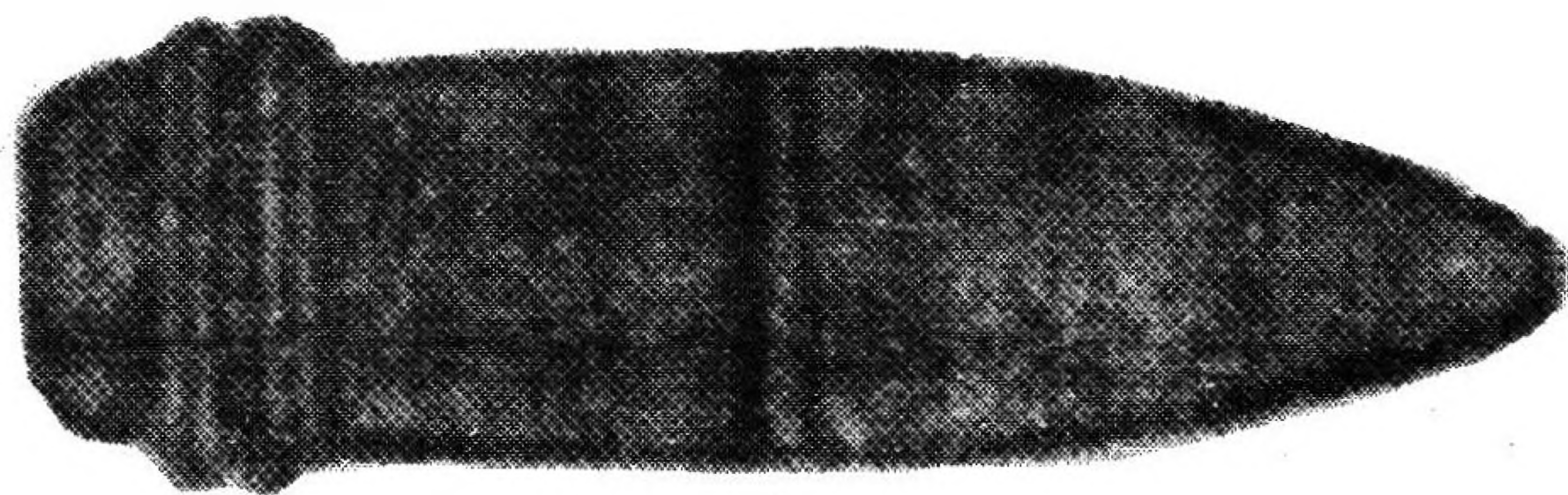
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15 cm 40 cal Gun
15 cm 45 cal Gun
15 cm 50 cal Gun

Remarks:



Diameter: 155 mm

Designation: Type 91 Practice Projectile

Color and Markings: Yellow nose, black body, white central line, (九 一) (vertically) on the ogive in white.

Projectile Length:

Projectile Length With Fuze:

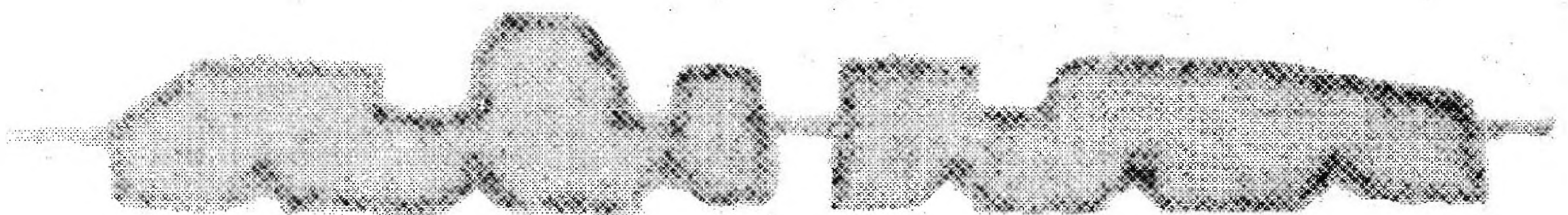
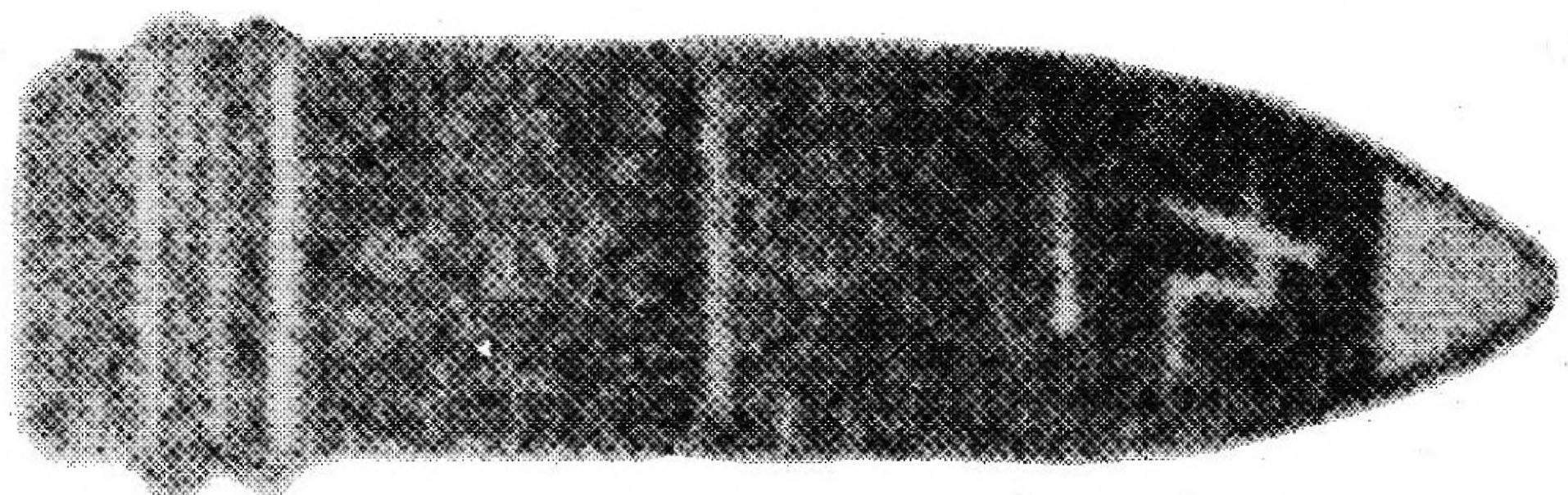
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15.5 cm Gun

Remarks:



Diameter: 155 mm

Designation: Type 91 AP Projectile

Color and Markings: White body, red central band, (九 -)
(vertically) in black on the ogive.

Projectile Length:

Projectile Length With Fuze:

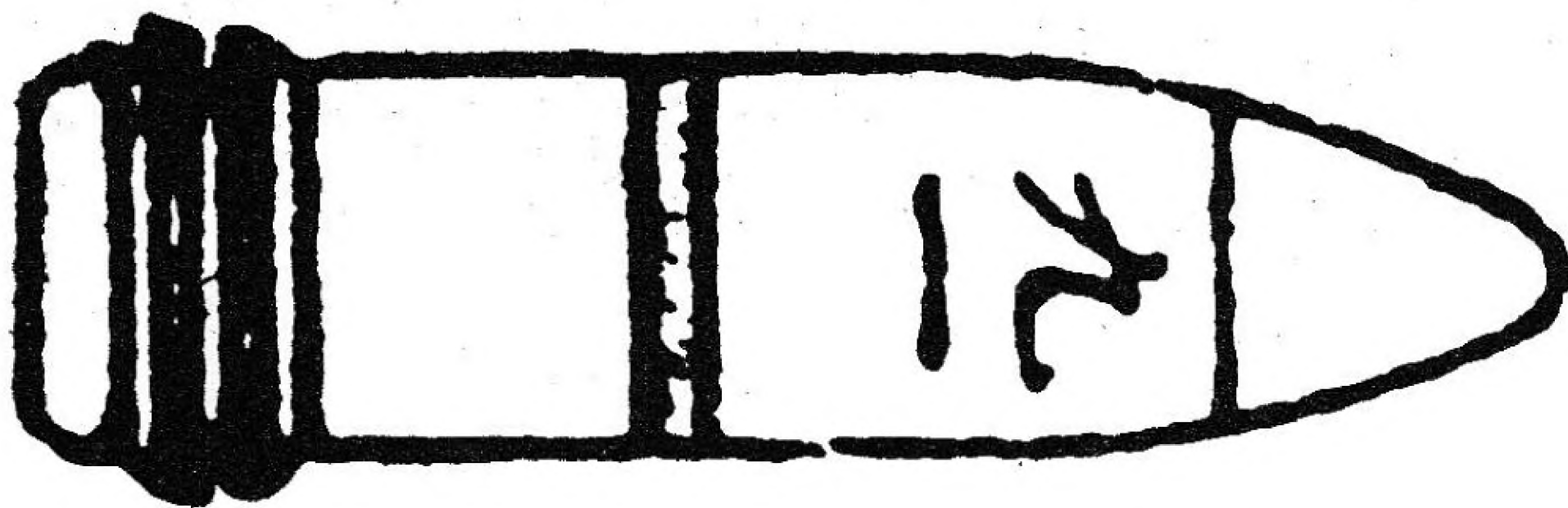
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 15.5 cm Gun

Remarks: Rotating band same as shown for Type 91
Practice projectile for this gun.



Diameter: 200 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, white body, two red
central bands

Projectile Length:

Projectile Length With Fuze:

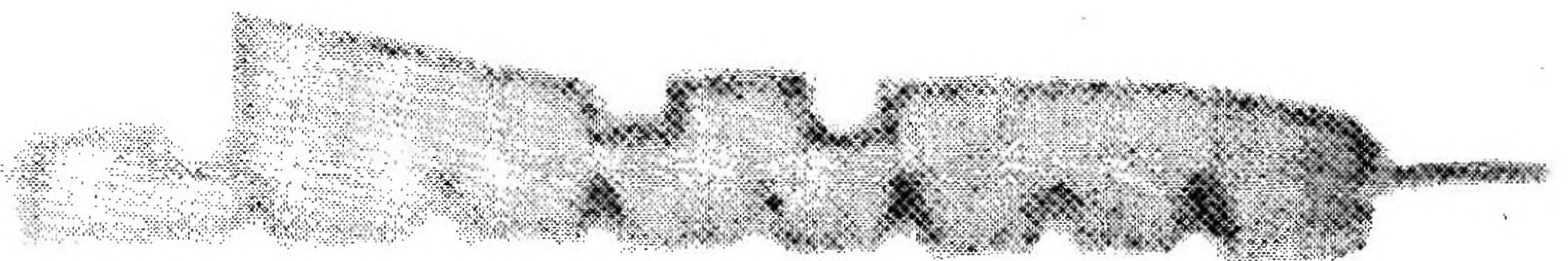
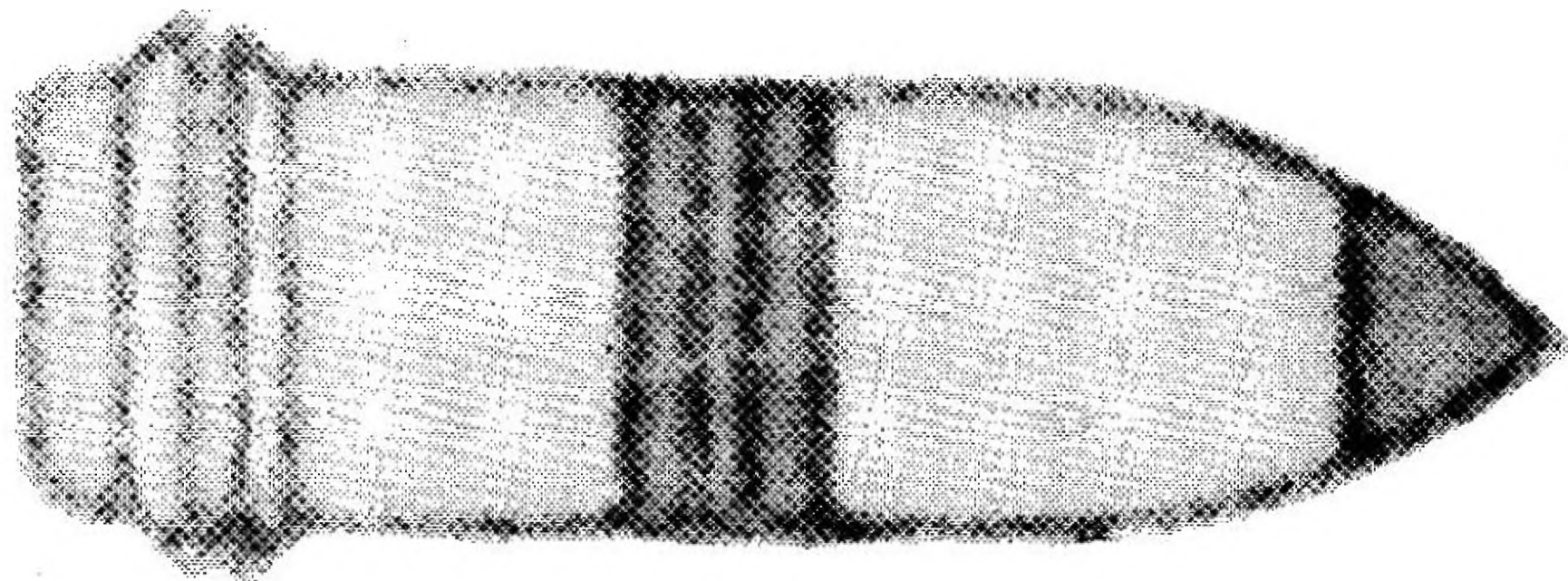
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 20 cm 45 cal Gun

Remarks: Converted from Mk. 2 AP Projectile



Diameter: 200 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

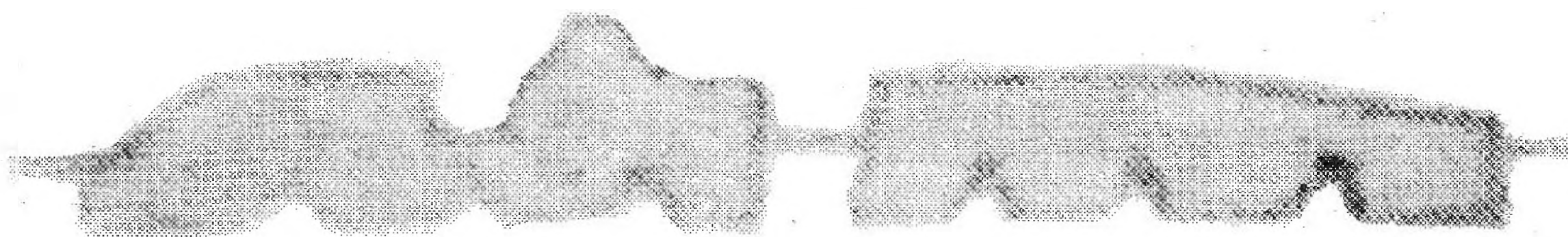
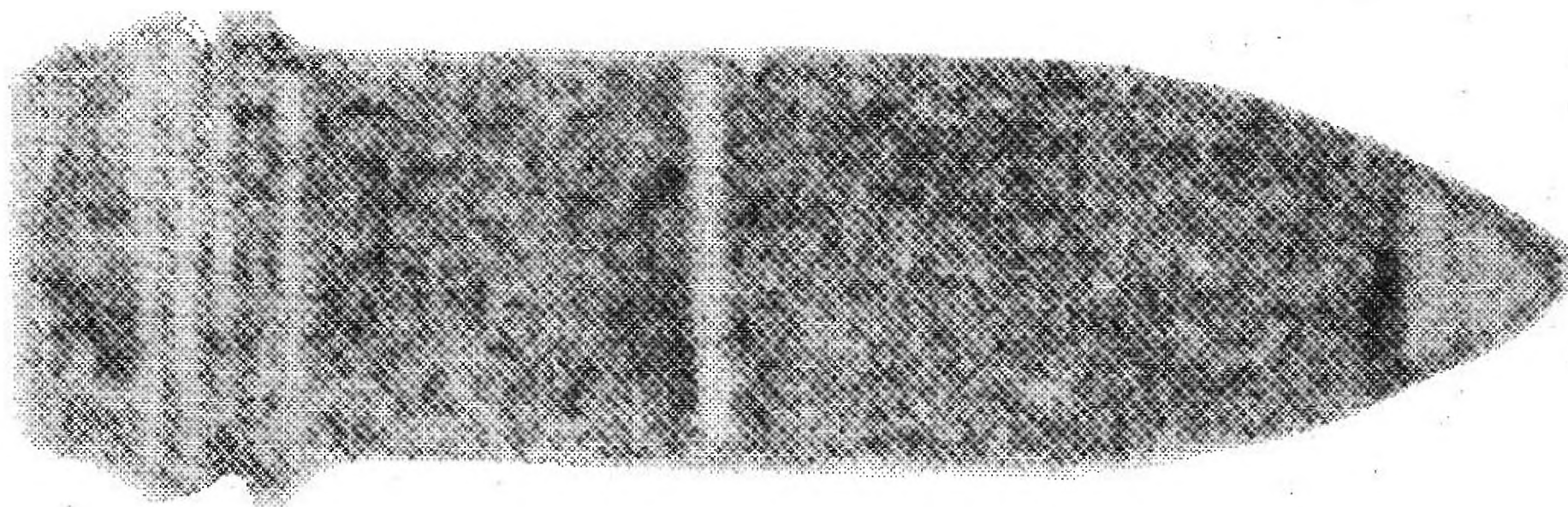
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 20 cm 50 cal Gun

Remarks:



Diameter: 200 mm

Designation: Type 91 Practice Projectile

Color and Markings: (九一) (vertically) on ogive in white, yellow nose, black body, white central band.

Projectile Length:

Projectile Length With Fuze:

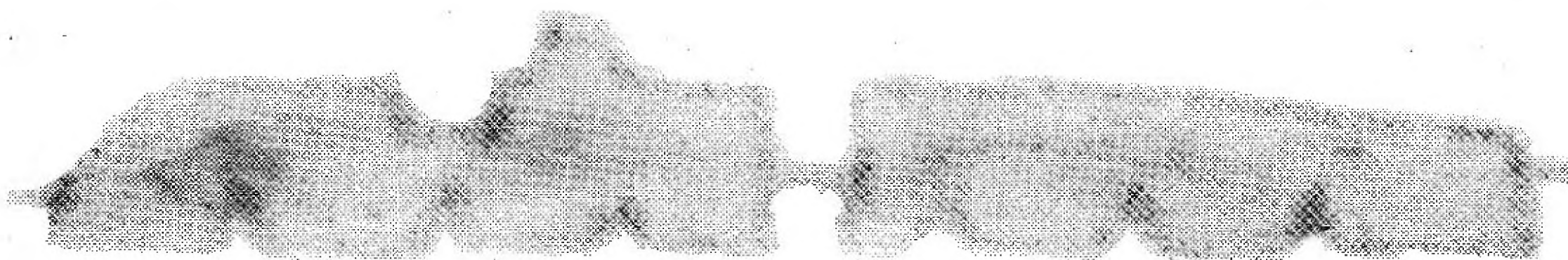
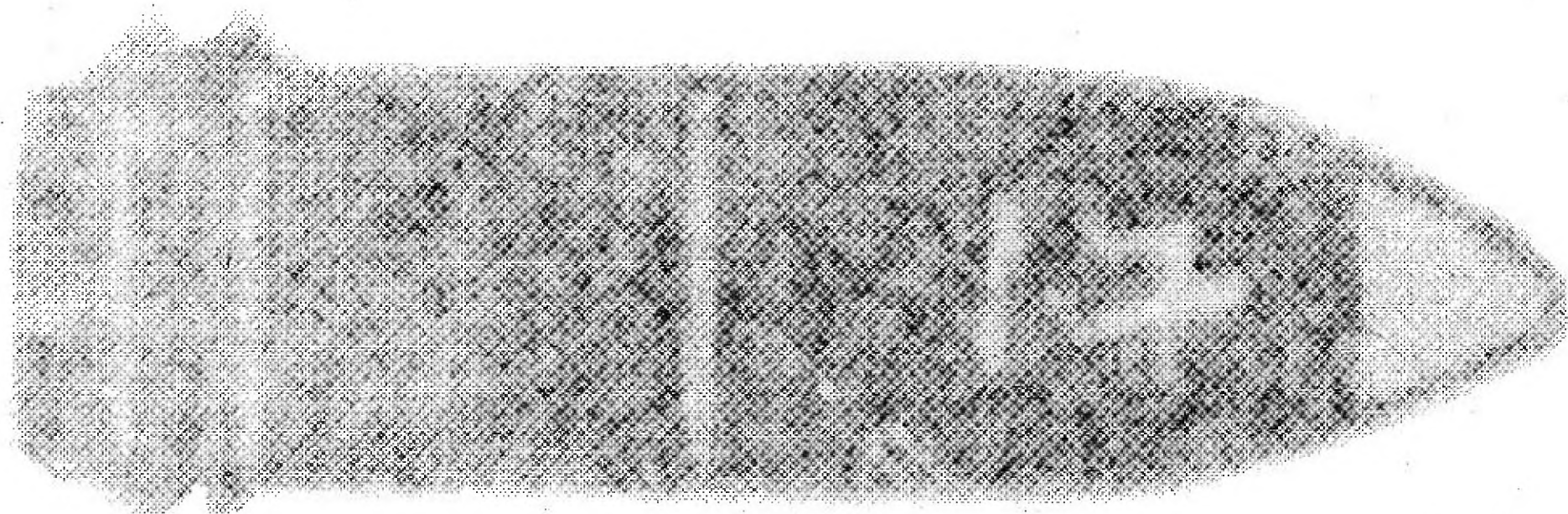
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: Mk. 2 20 cm Gun

Remarks:



Diameter: 200 mm

Designation: Time Practice Projectile

Color and Markings: Yellow nose, black body, white central band, two rows of white dots on ogive.

Projectile Length:

Projectile Length With Fuze:

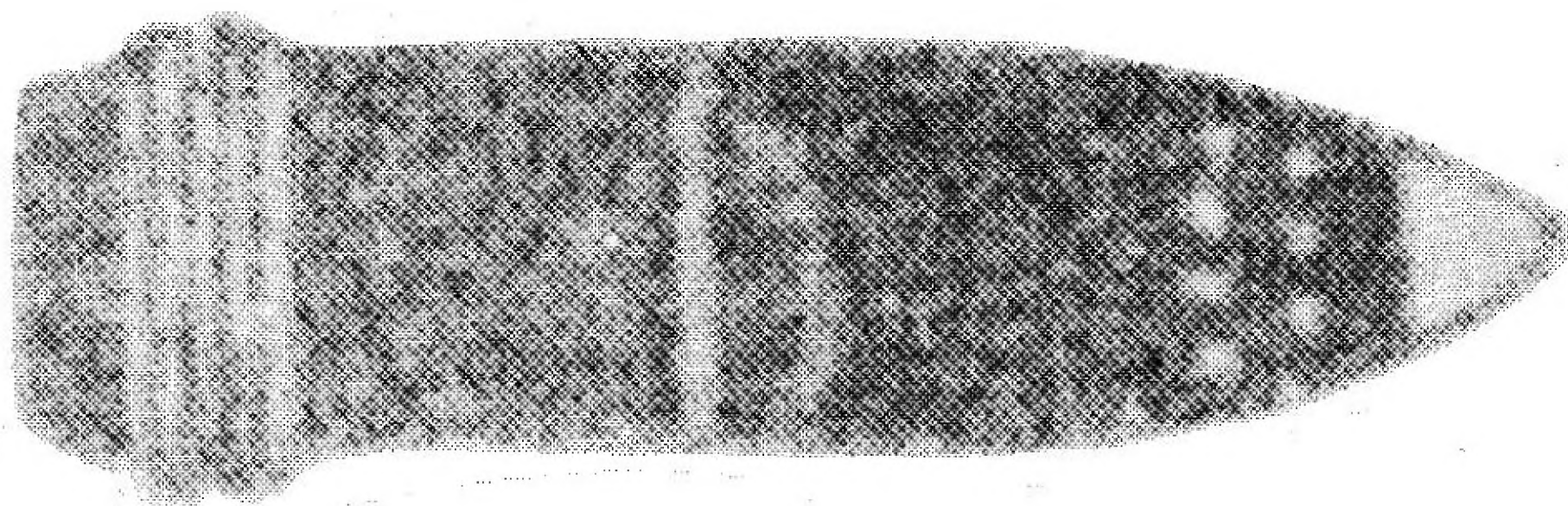
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 20 cm 50 cal Gun

Remarks: Rotating band same as shown for Practice projectile for this gun.



Diameter: 200 mm

Designation: Time Practice Projectile

Color and Markings: Yellow nose, black body, white central band, (九一) (vertically) in white on ogive, two rows of white dots on ogive.

Projectile Length:

Projectile Length With Fuze:

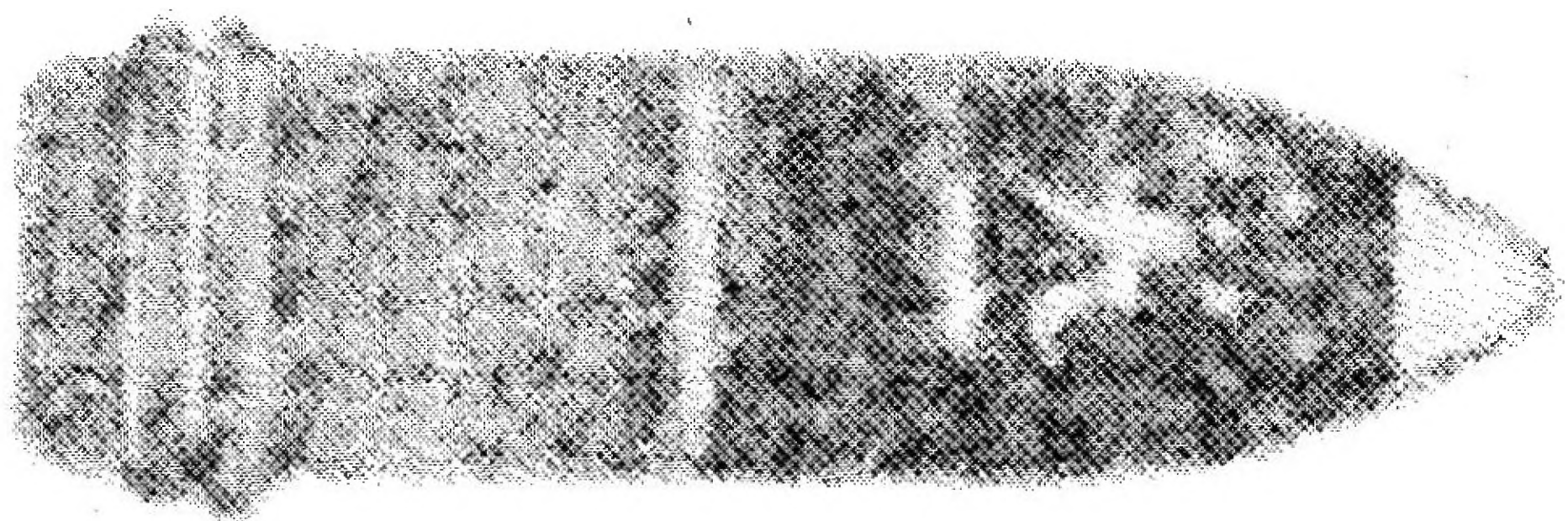
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: Mk. 2 20 cm 50 cal Gun

Remarks: Rotating band same as shown for Type 91 Practice projectile for this gun.



Diameter: 200 mm

Designation: 20 cm Short Incendiary Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

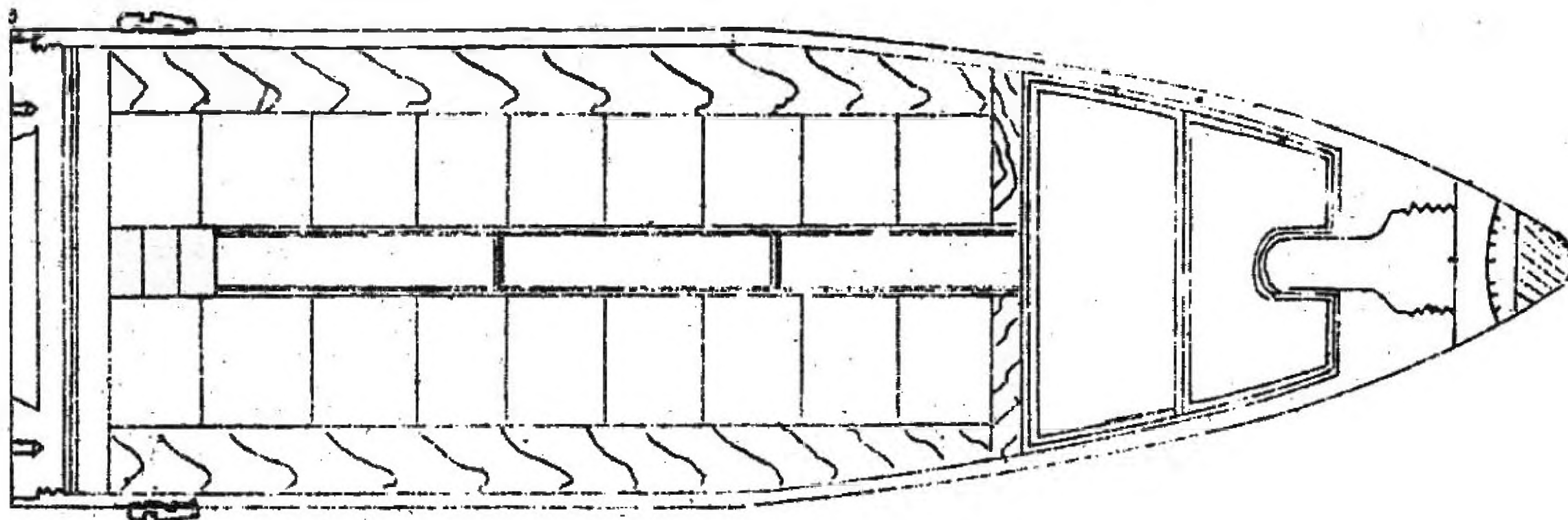
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 0 Time. Type 91 Auxiliary

Guns Used In: 20 cm Short Gun

Remarks: Used for AA firing.



Diameter: 200 mm

Designation: Star Projectile B

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type O

Guns Used In: Mk. 2 20 cm Gun

Remarks:

Diameter: 200 mm

Designation: AP Projectile, Modif. 1

Color and Markings: White body, red central band

Projectile Length:

Projectile Length With Fuze:

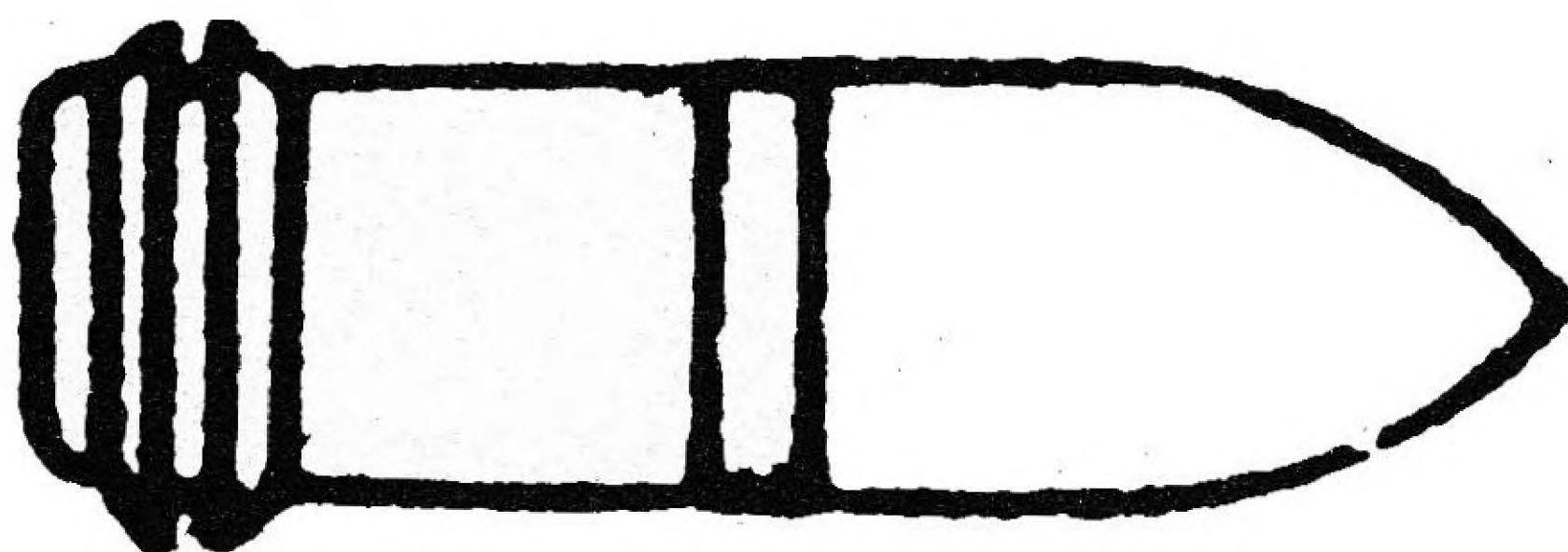
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 20 cm 45 cal Gun

Remarks: ⊖ is stamped into the rotating band.
Rotating band same as shown for Practice
projectile for this gun.



Diameter: 200 mm

Designation: Capped AP Projectile

Color and Markings: White body, red central band

Projectile Length:

Projectile Length With Fuze:

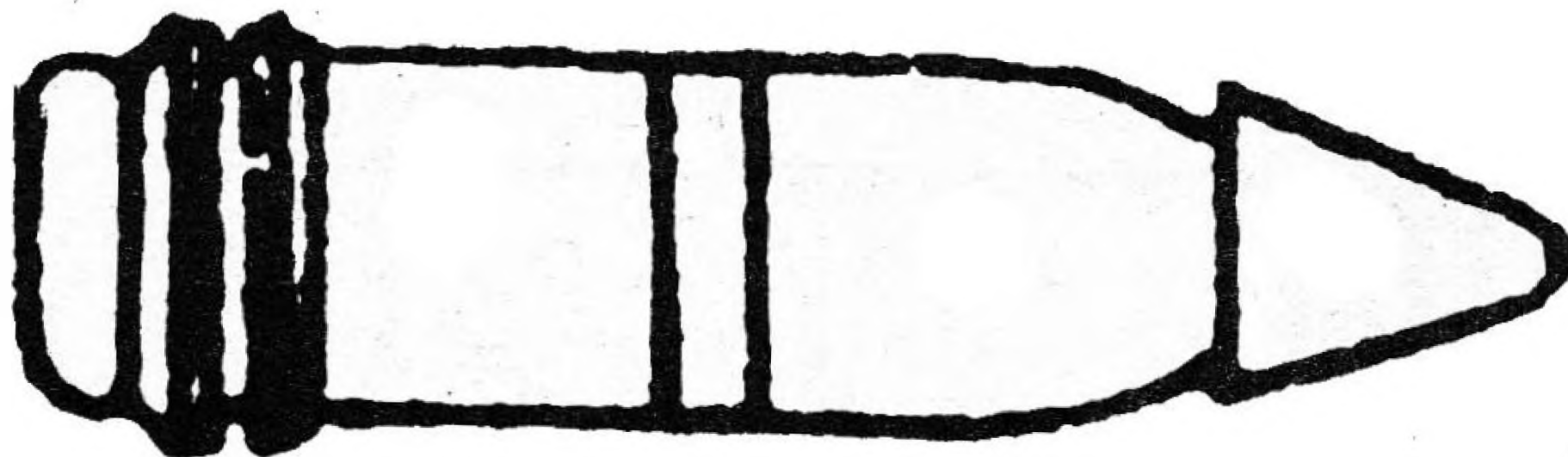
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 20 cm 50 cal Gun

Remarks: Rotating band same as shown for Practice
Projectile for this gun.



Diameter: 200 mm

Designation: Type 88 AP Projectile

Color and Markings: White body, red central band,
(八 八) (vertically) in black on ogive

Projectile Length:

Projectile Length With Fuze:

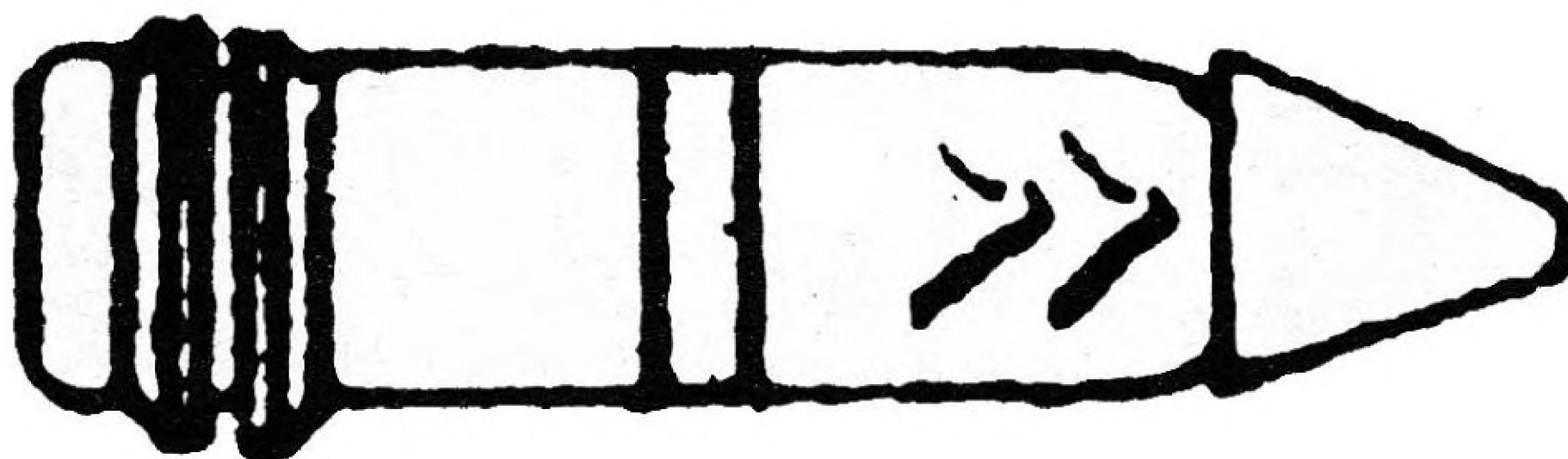
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 20 cm 50 cal Gun

Remarks: Rotating band same as shown for Practice
projectile for this gun.



Diameter: 200 mm

Designation: Type 91 AP Projectile

Color and Markings: White body, red central band,
(九一) in black on ogive

Projectile Length:

Projectile Length With Fuze:

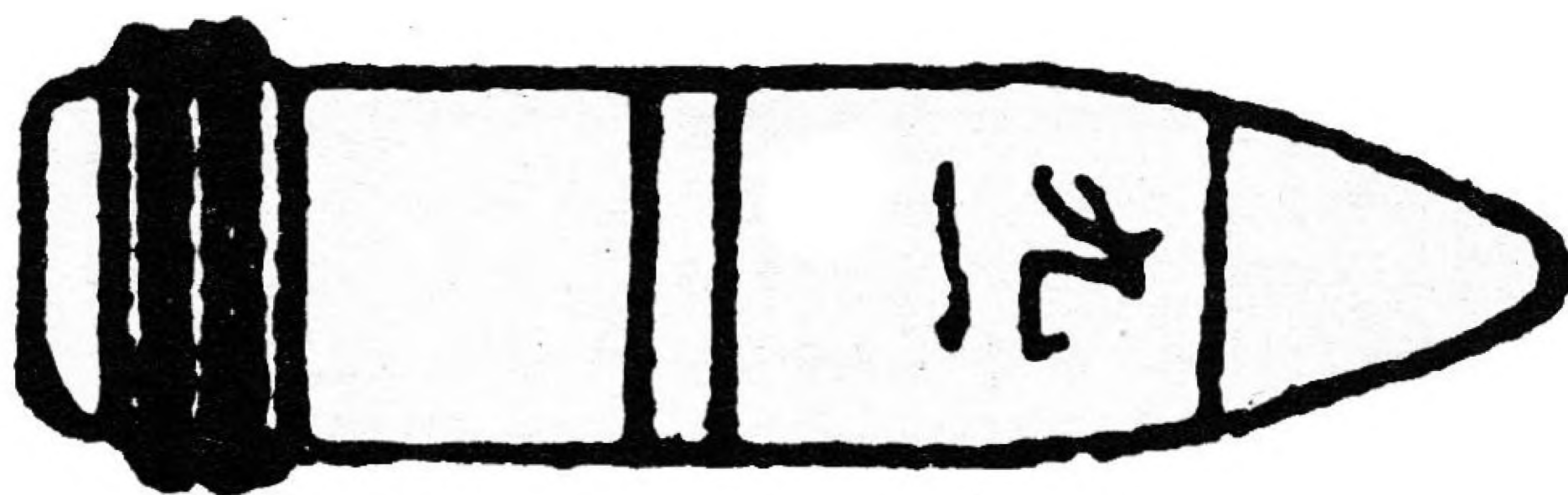
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: Mk. 2 20 cm 50 cal Gun

Remarks: Rotating band same as shown for Type 91
Practice projectile for this gun.



Diameter: 200 mm

Designation: 20 cm Short Incendiary Shrapnel
Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

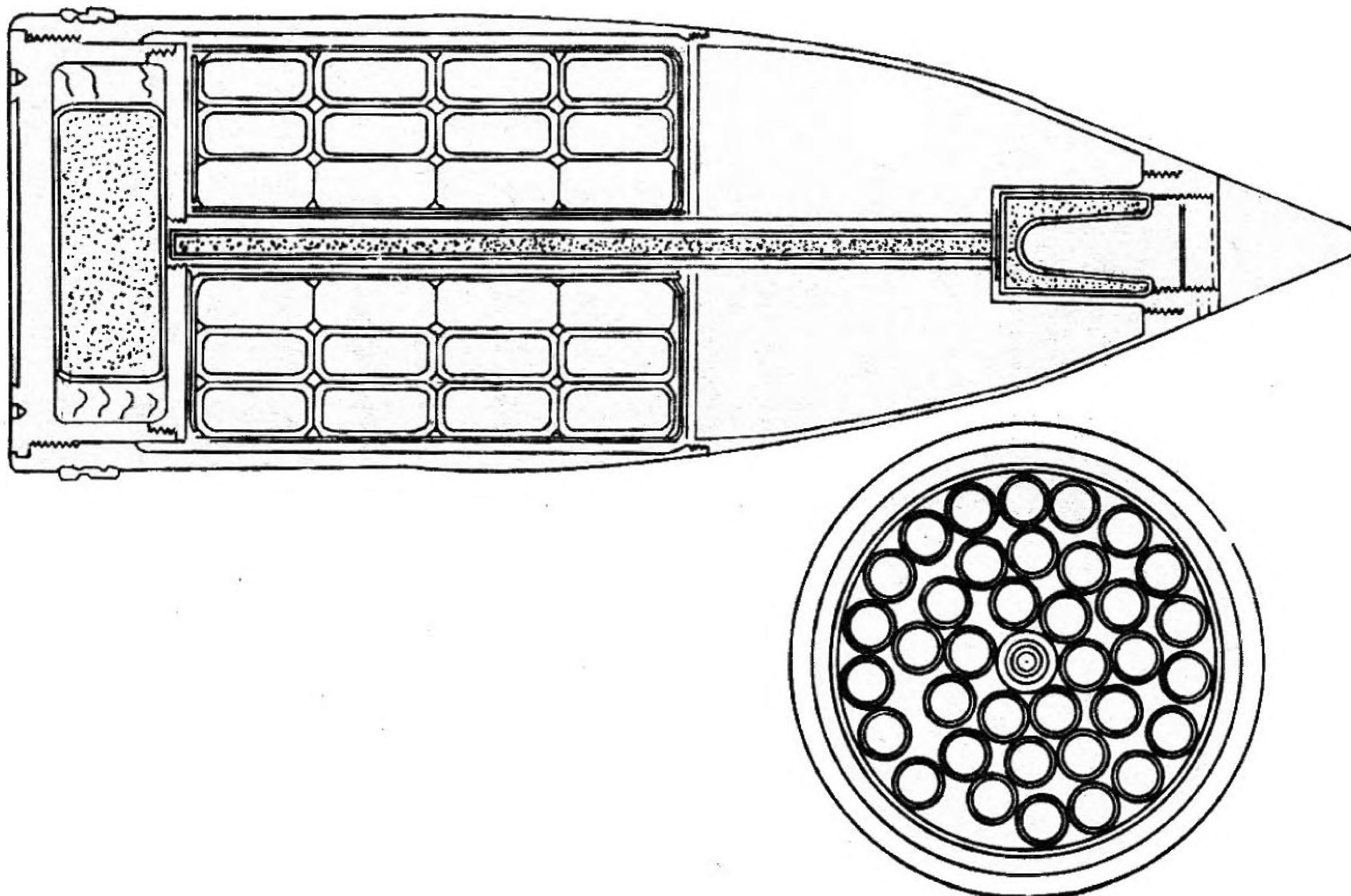
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type O Time

Guns Used In: 20 cm Short Gun

Remarks: Used for AA firing



Diameter: 200 mm

Designation: Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

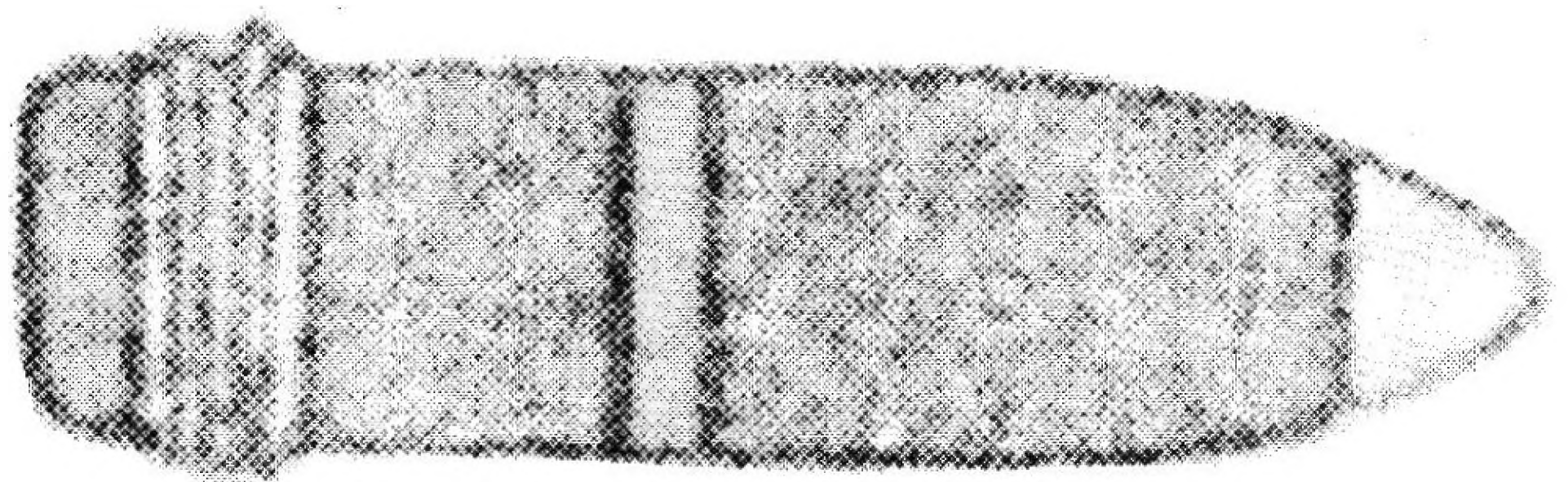
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 20 cm 50 cal Gun

Remarks: Rotating band same as shown for Practice
projectile for this gun.



Diameter: 200 mm

Designation: Common Projectile, Modif. 1

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

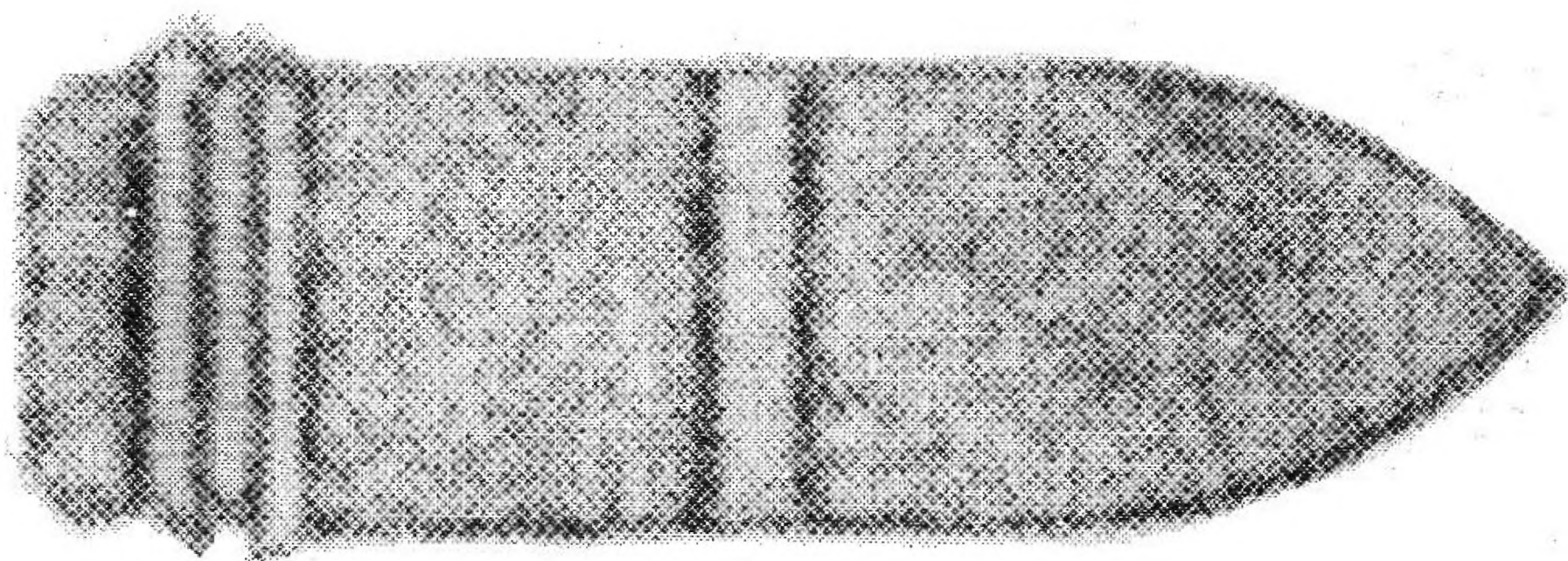
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 20 cm 45 cal Gun

Remarks: ⊖ is stamped into the rotating band.
Rotating band same as shown for Practice
projectile for this gun.



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Diameter: 200 mm

Designation: Type 91 Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

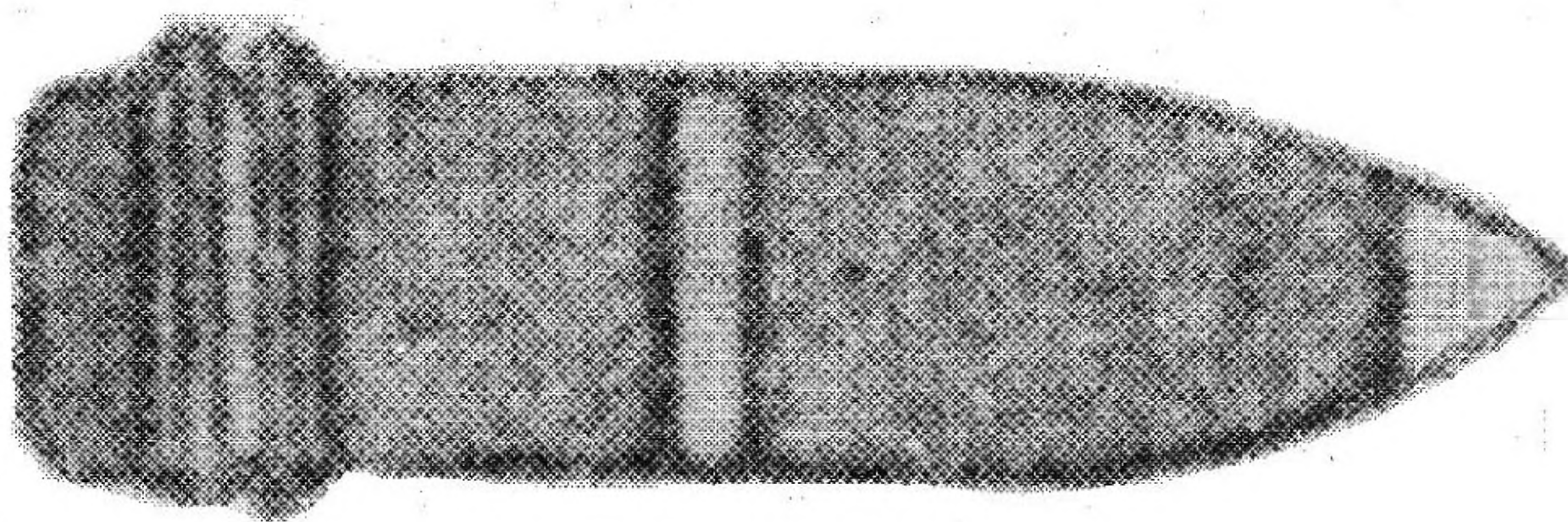
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: Mk. 2 20 cm 50 cal Gun

Remarks: Rotating band same as shown for Type 91
Practice projectile for this gun.



Diameter: 250 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

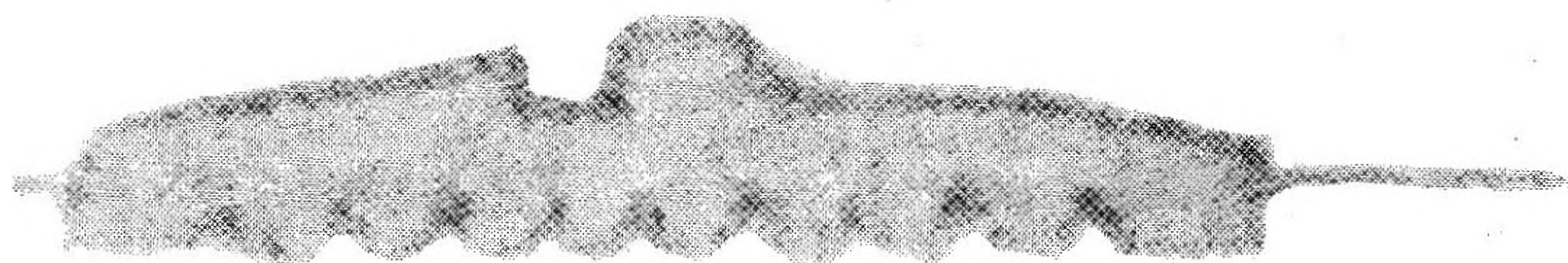
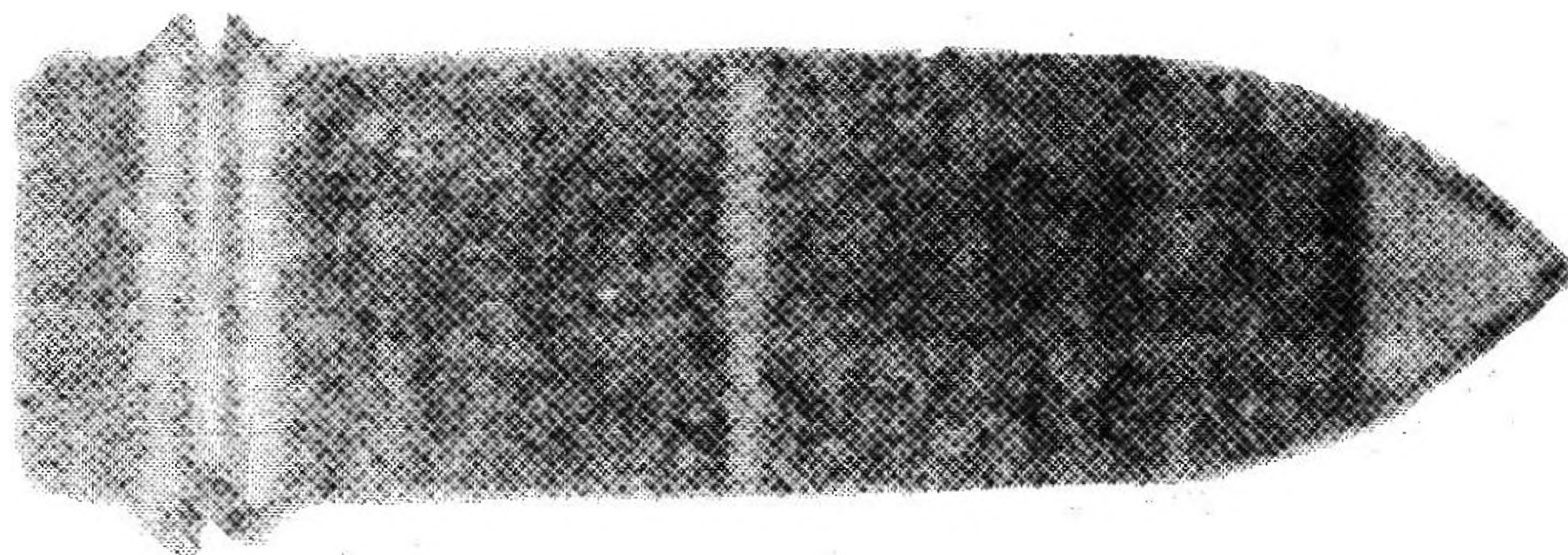
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 25 cm 40 cal Gun

Remarks:



Diameter: 250 mm

Designation: Common Projectile

Color and Markings: Rust color body, yellow central band

Projectile Length:

Projectile Length With Fuze:

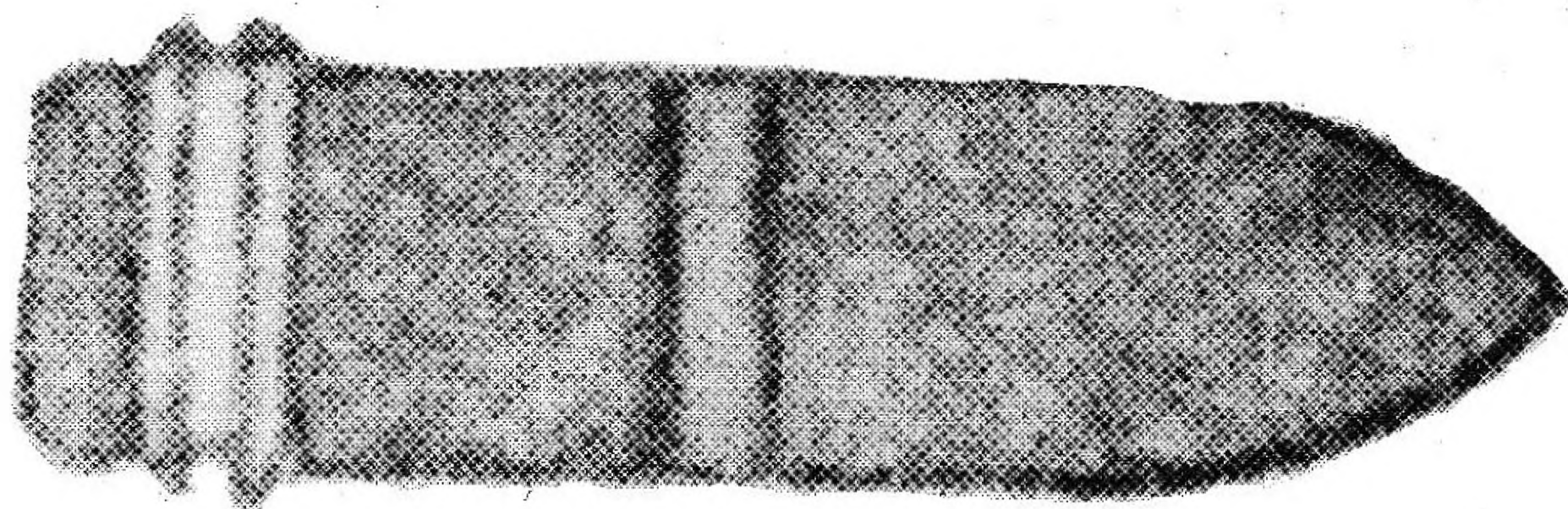
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 25 cm 40 cal Gun

Remarks: Rotating band same as shown for Practice projectile for this gun.



Diameter: 360 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

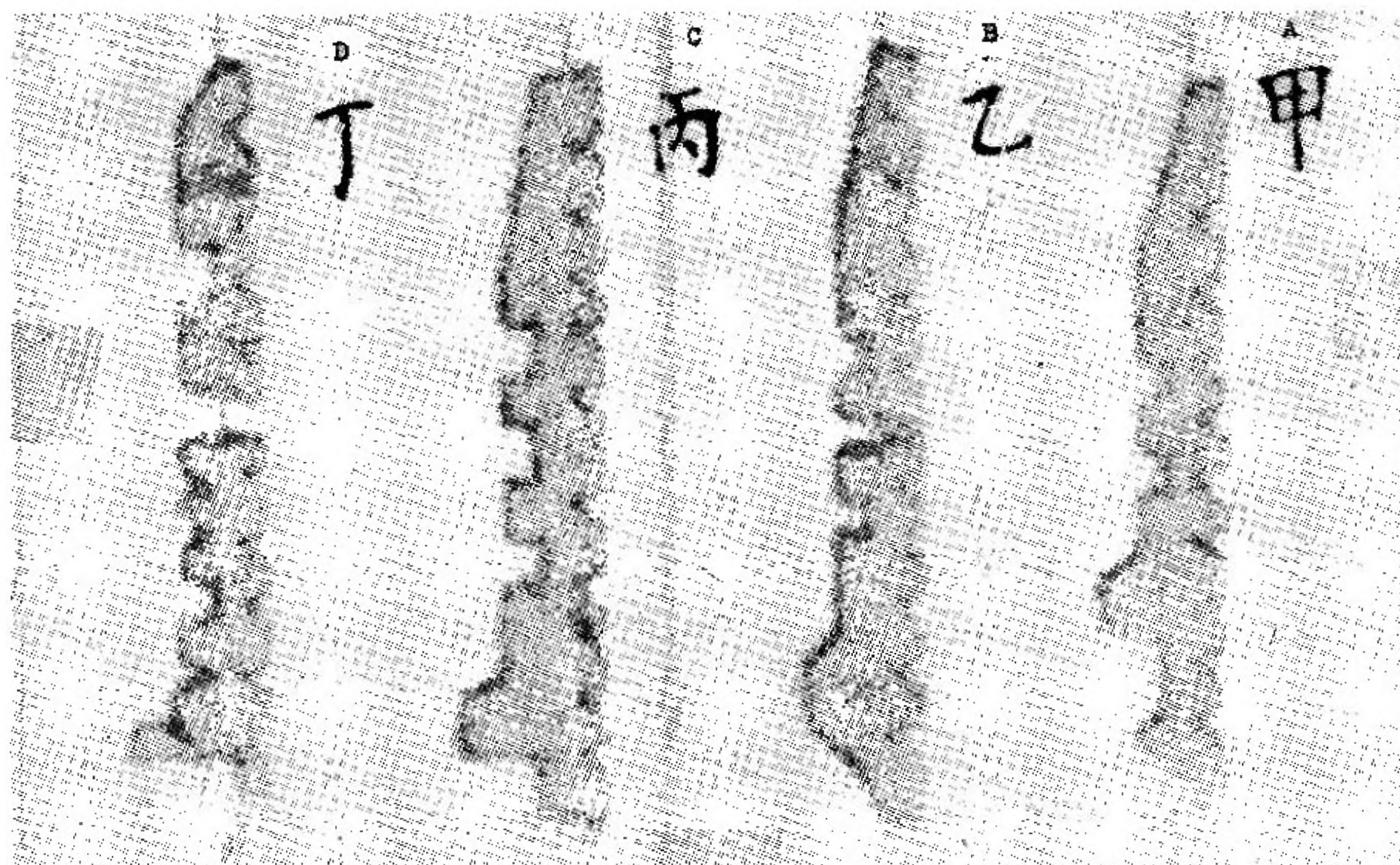
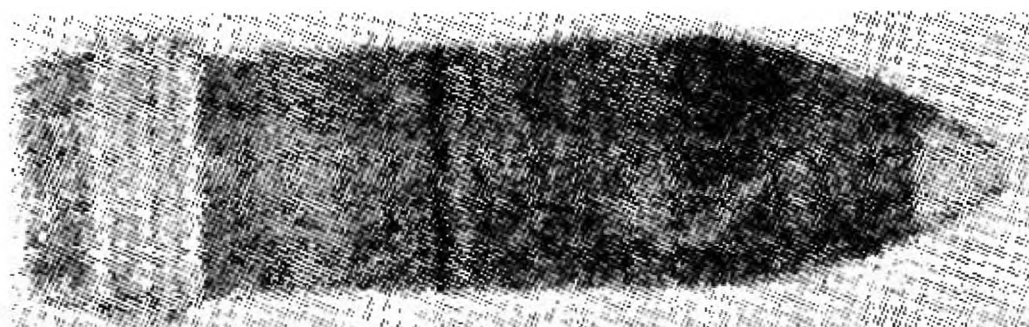
Weight and Type of Filling:

Fuzing:

Guns Used In: 36 cm Gun

Remarks: Those with rotating bands A & C will be limited to stocks on hand, and will not be manufactured in the future.

Those with D rotating bands which are newly manufactured or are modified B bands will have (D) or (J), respectively, painted in black on the projectile.



Diameter: 360 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, rust color body,
yellow central band.

Projectile Length:

Projectile Length With Fuze:

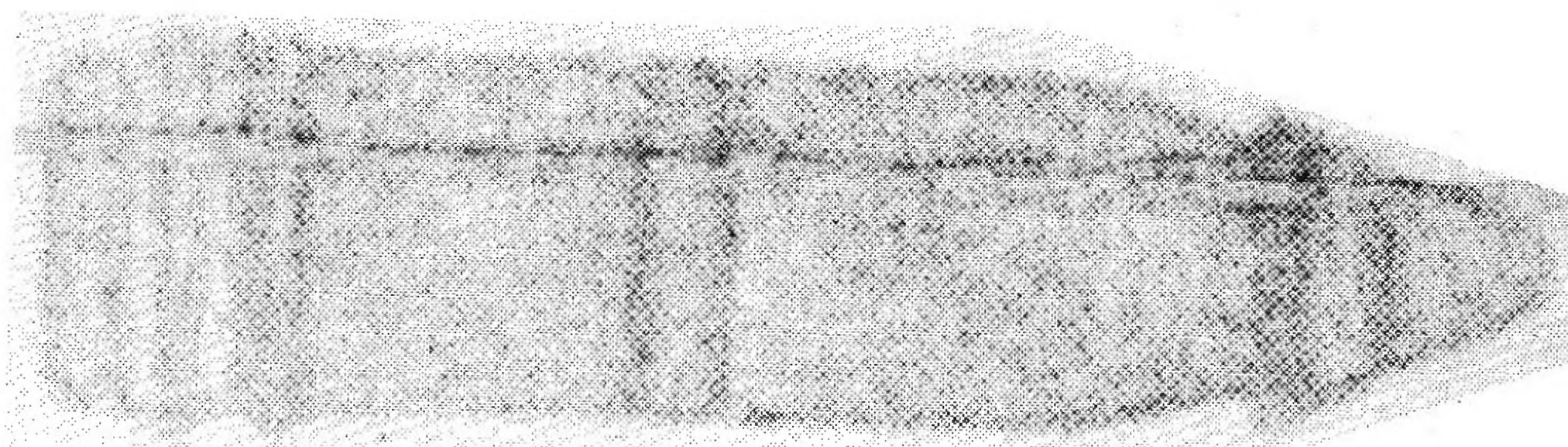
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 36 cm Gun

Remarks: Converted from Capped Common Projectile.
Rotating bands & remarks same as for Practice
projectile for this gun



Diameter: 360 mm

Designation: Type 91 Practice Projectile

Color and Markings: (九 —) (vertically) on ogive in white, yellow nose, black body, white central band.

Projectile Length:

Projectile Length With Fuze:

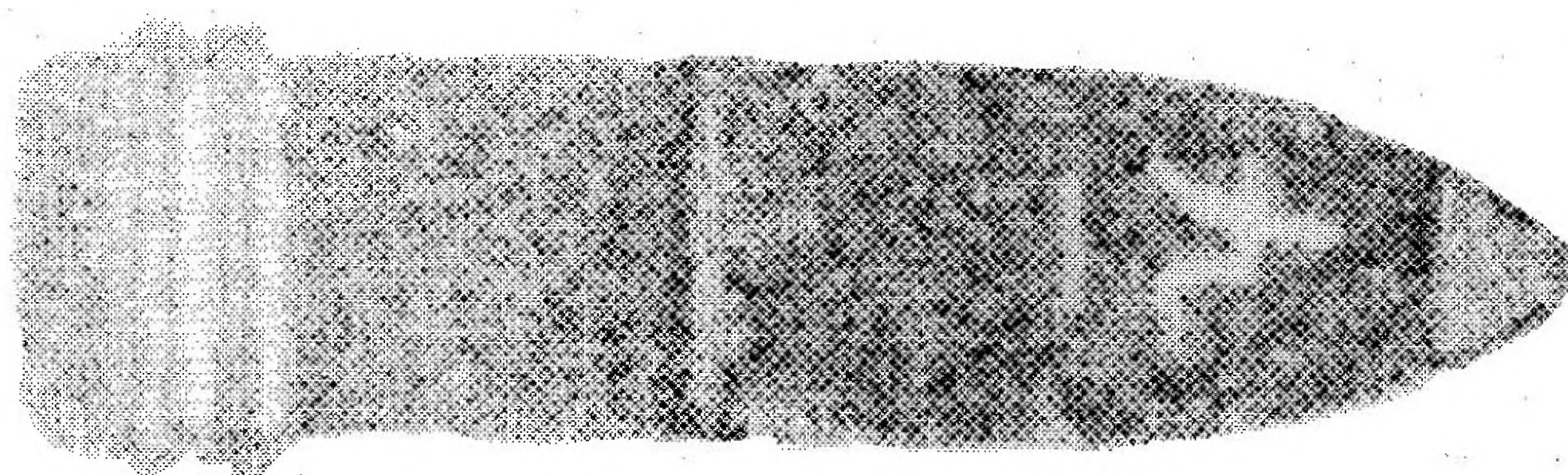
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 36 cm Gun

Remarks: Rotating bands & remarks same as shown for Practice projectiles for this gun.



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Diameter: 360 mm

Designation: Mk. 5 AP Projectile

Color and Markings: White body, red central band,
(五号) (vertically) in black on ogive

Projectile Length:

Projectile Length With Fuze:

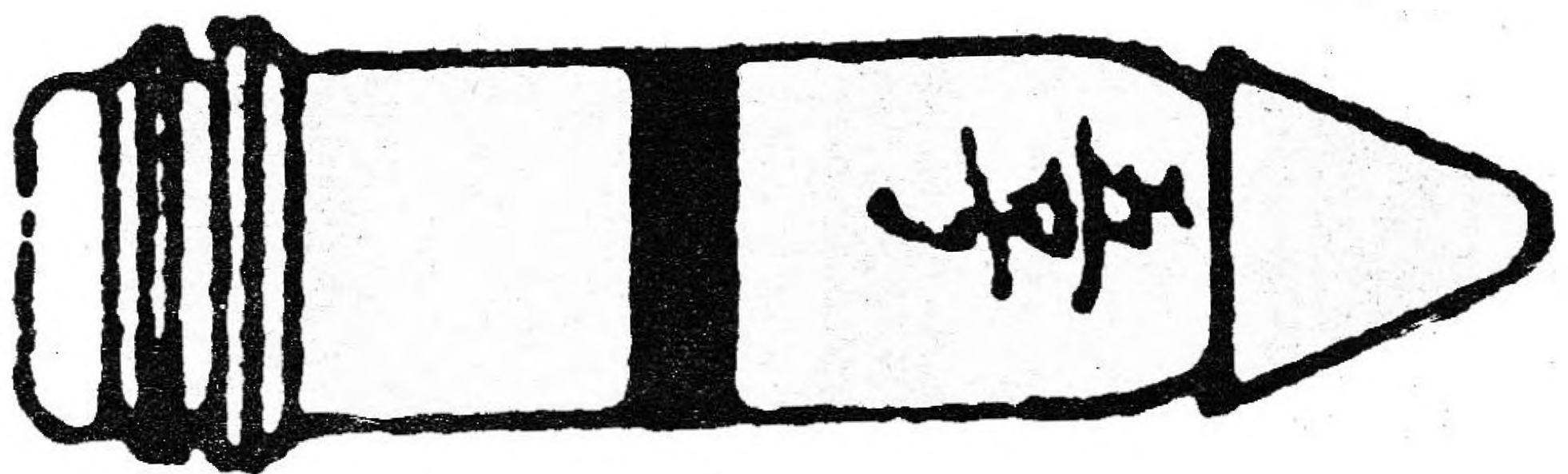
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 36 cm Gun

Remarks: Rotating bands & remarks same as shown for
Practice projectile for this gun.



Diameter: 360 mm

Designation: Capped AP Projectile

Color and Markings: White body, red central band

Projectile Length:

Projectile Length With Fuze:

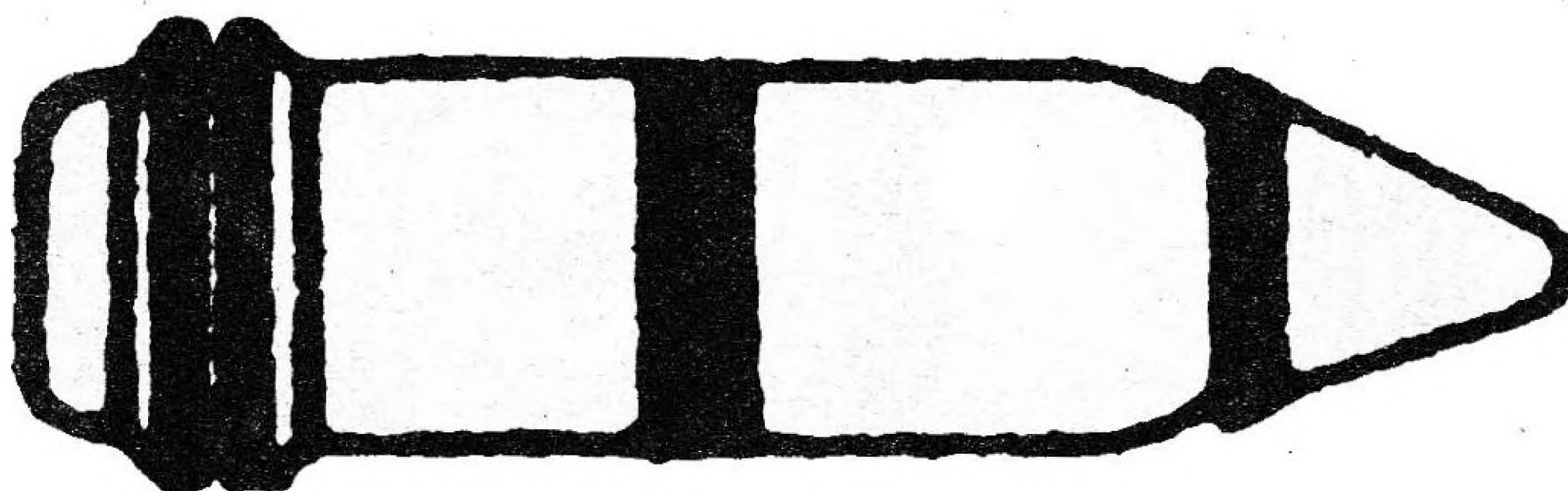
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 36 cm Gun

Remarks: Rotating bands & remarks same as shown for
Practice projectile for this gun.



Diameter: 360 mm

Designation: Type 88 AP Projectile

Color and Markings: White body, red central band, (八八)
(vertically) in black on ogive

Projectile Length:

Projectile Length With Fuze:

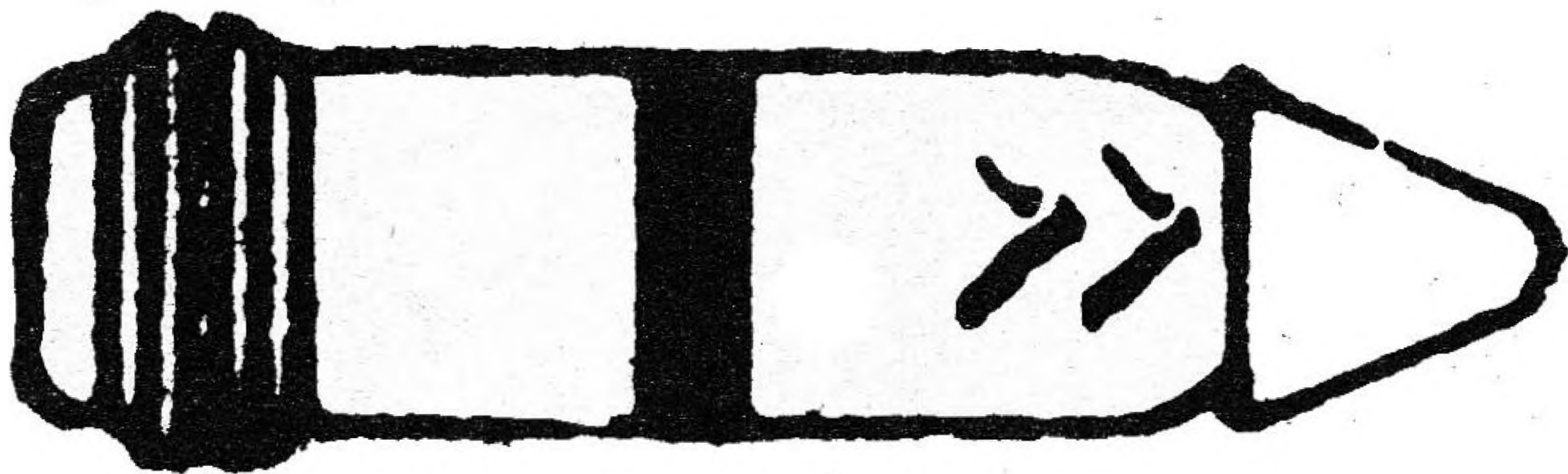
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 36 cm Gun

Remarks: Rotating bands & remarks same as shown for
Practice projectile for this gun.



Diameter: 360 mm

Designation: Type 91 AP Projectile

Color and Markings: White body, red central band,
(九一) (vertically) in black on ogive

Projectile Length:

Projectile Length With Fuze:

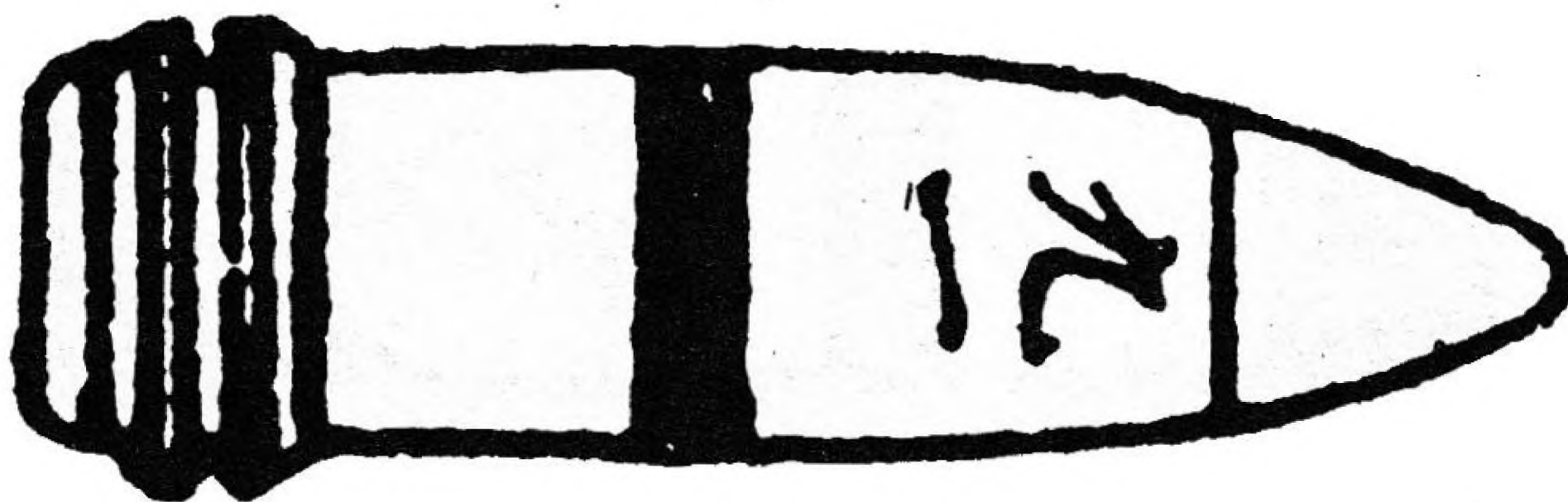
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 13, Mk. 5 (Cap attached)

Guns Used In: 36 cm Gun

Remarks: Rotating bands & remarks same as shown for
Practice projectile for this gun.



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Diameter: 360 mm

Designation: Type 1 AP Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 13 Mk. 5 (Cap attached)

Guns Used In: 36 cm 45 cal Gun

Remarks:

Diameter: 360 mm

Designation: Capped Common Projectile

Color and Markings: Rust color, yellow central band

Projectile Length:

Projectile Length With Fuze:

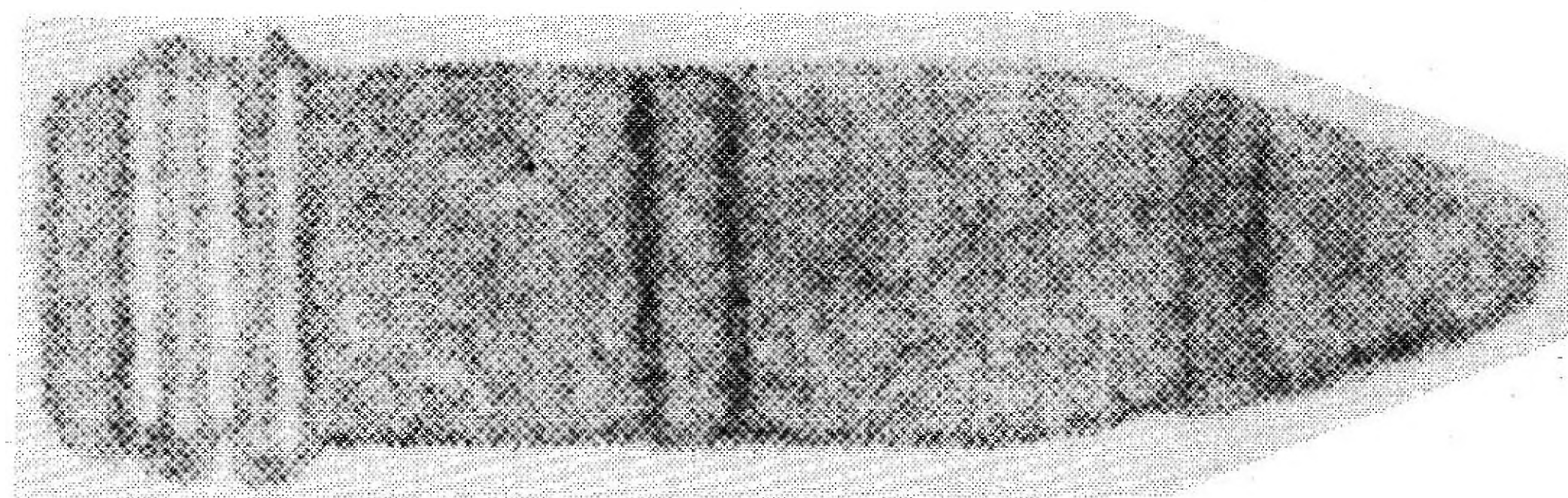
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 36 cm Gun

Remarks:



Diameter: 400 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, black body, white
central band

Projectile Length:

Projectile Length With Fuze:

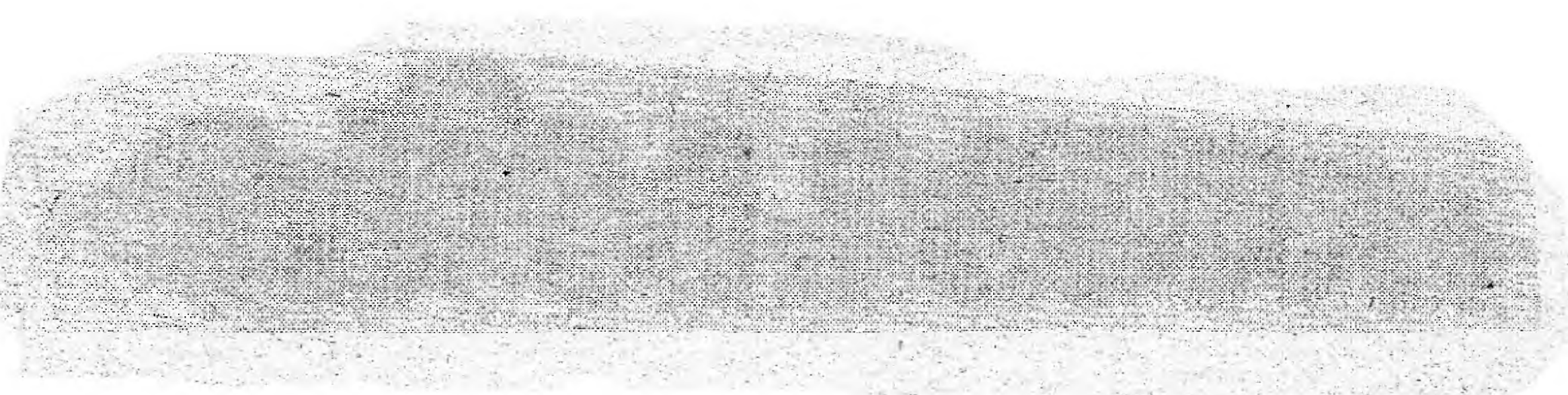
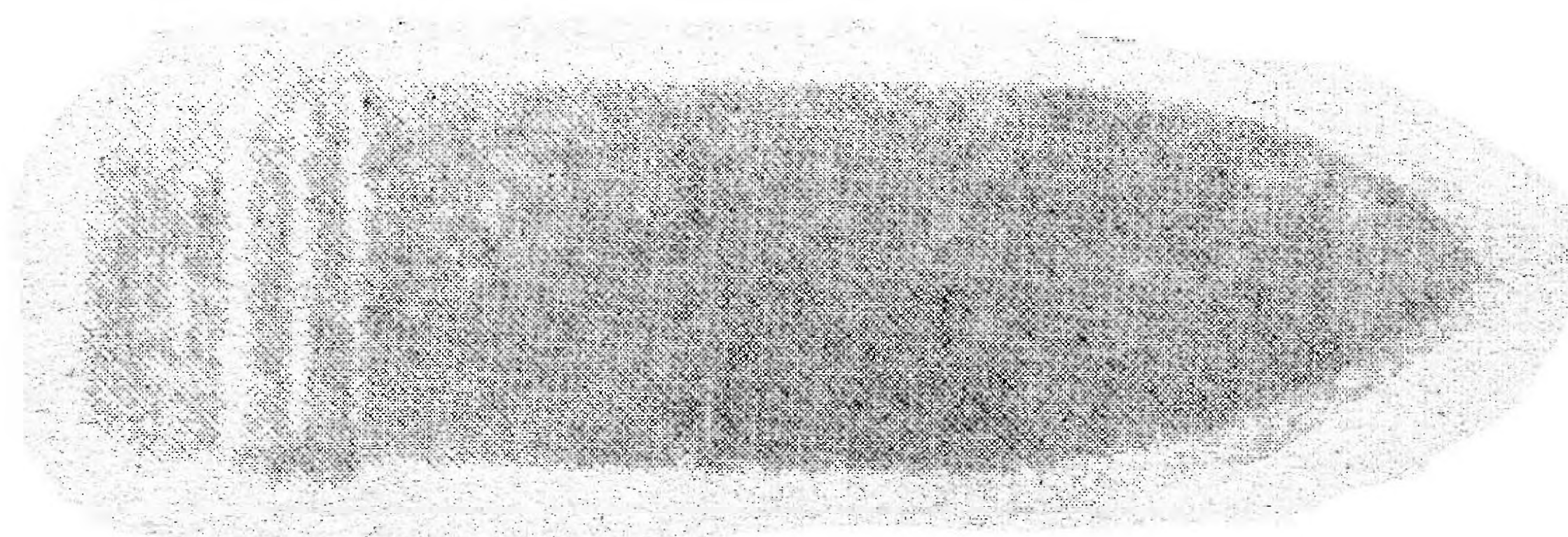
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 40 cm Gun

Remarks:



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Diameter: 400 mm

Designation: Practice Projectile

Color and Markings: Yellow nose, white body, red
central band

Projectile Length:

Projectile Length With Fuze:

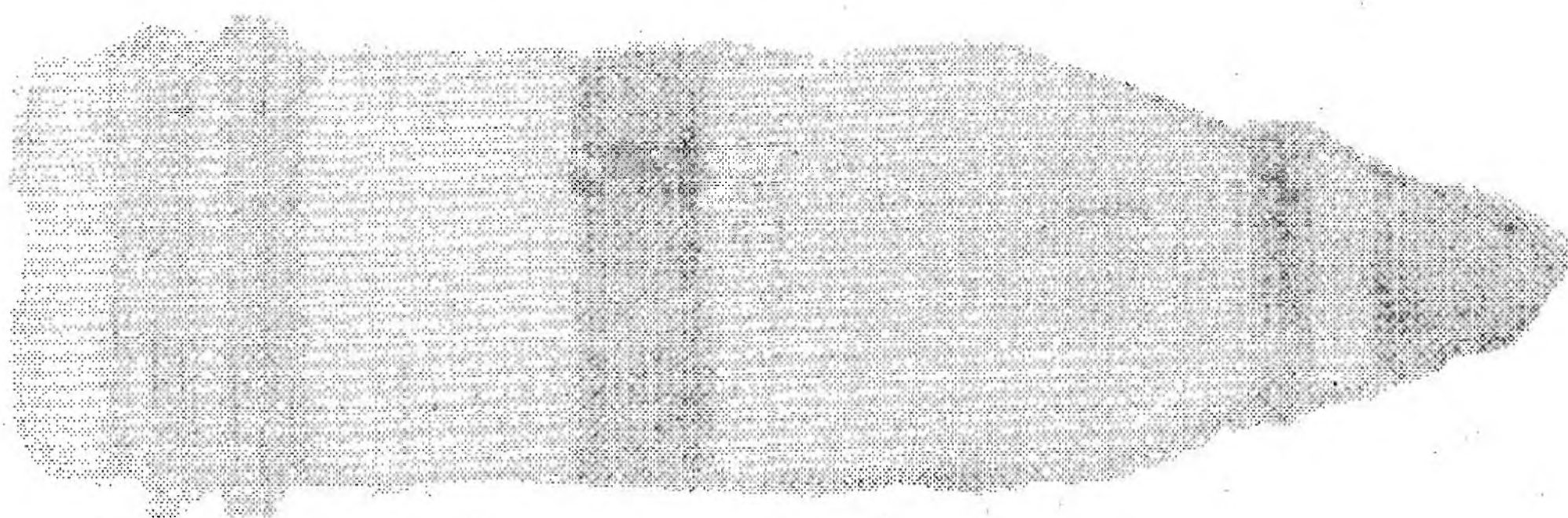
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 40 cm Gun

Remarks: Converted from Capped AP Projectile.
Rotating band same as shown for Practice
projectile for this gun.



Diameter: 400 mm

Designation: Type 91 Practice Projectile

Color and Markings: (九 —) (vertically) on ogive in white, black body, white central band

Projectile Length:

Projectile Length With Fuze:

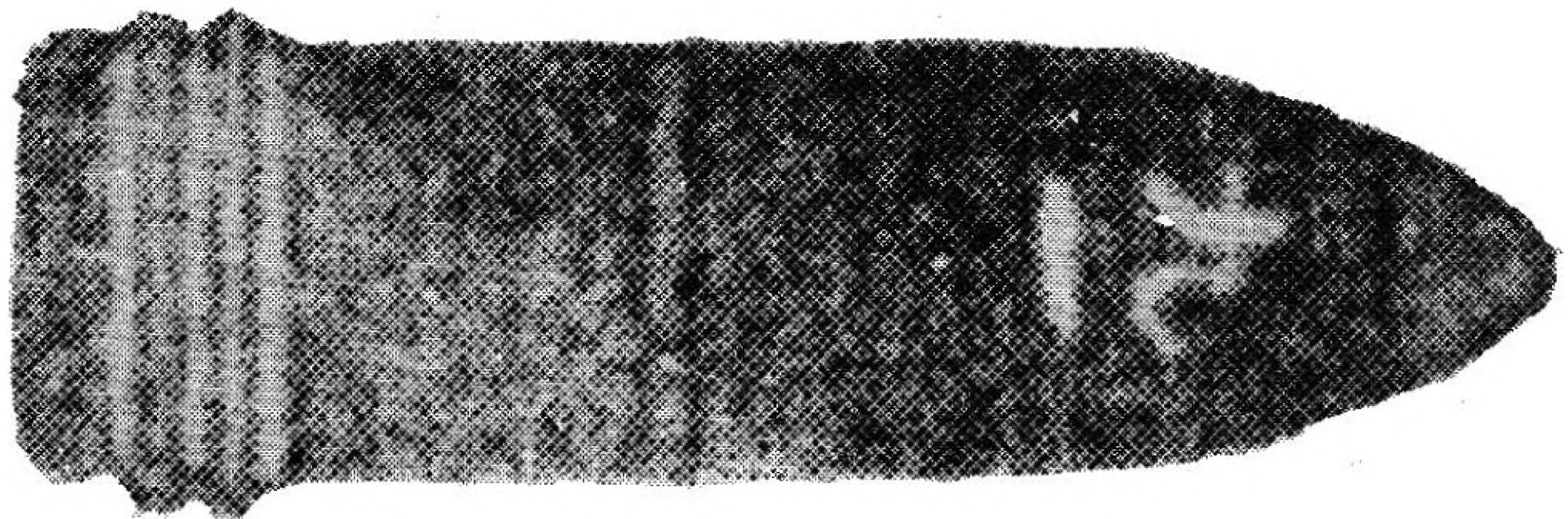
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: Type 94 40 cm Gun

Remarks: Rotating band same as shown for Practice projectile for this gun.



Diameter: 400 mm

Designation: Capped AP Projectile

Color and Markings: White body, red central band

Projectile Length:

Projectile Length With Fuze:

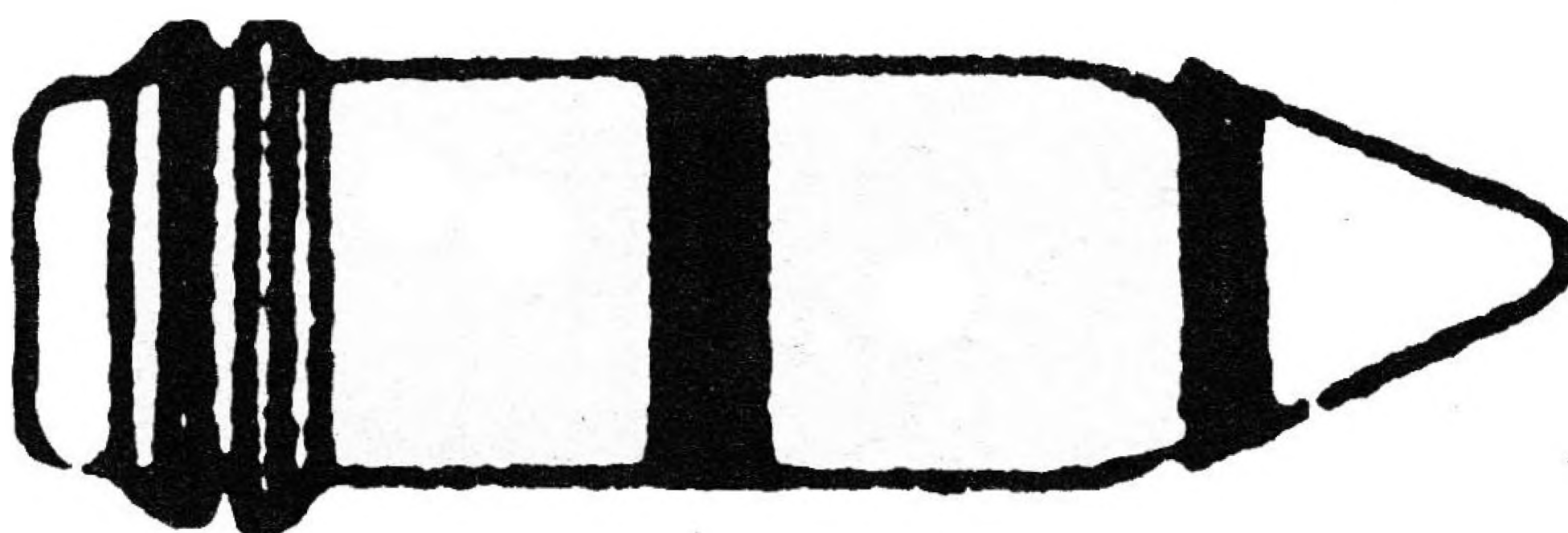
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 40 cm Gun

Remarks: Rotating band same as shown for Practice
projectile for this gun.



Diameter: 400 mm

Designation: Mk. 5 AP Projectile

Color and Markings: White body, red central band,
(五号) (vertically) in black on ogive

Projectile Length:

Projectile Length With Fuze:

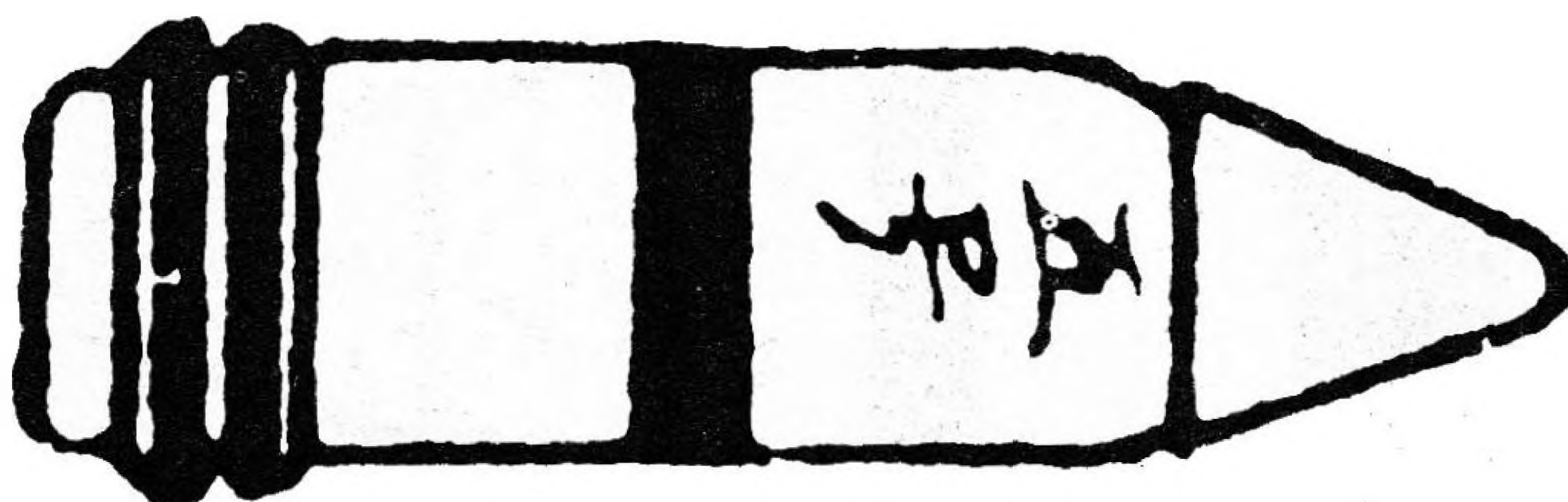
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 40 cm Gun

Remarks: Rotating band same as shown for Practice
projectile for this gun.



Diameter: 400 mm

Designation: Type 88 AP Projectile

Color and Markings: White body, red central band, (八八)
(vertically) in black on ogive

Projectile Length:

Projectile Length With Fuze:

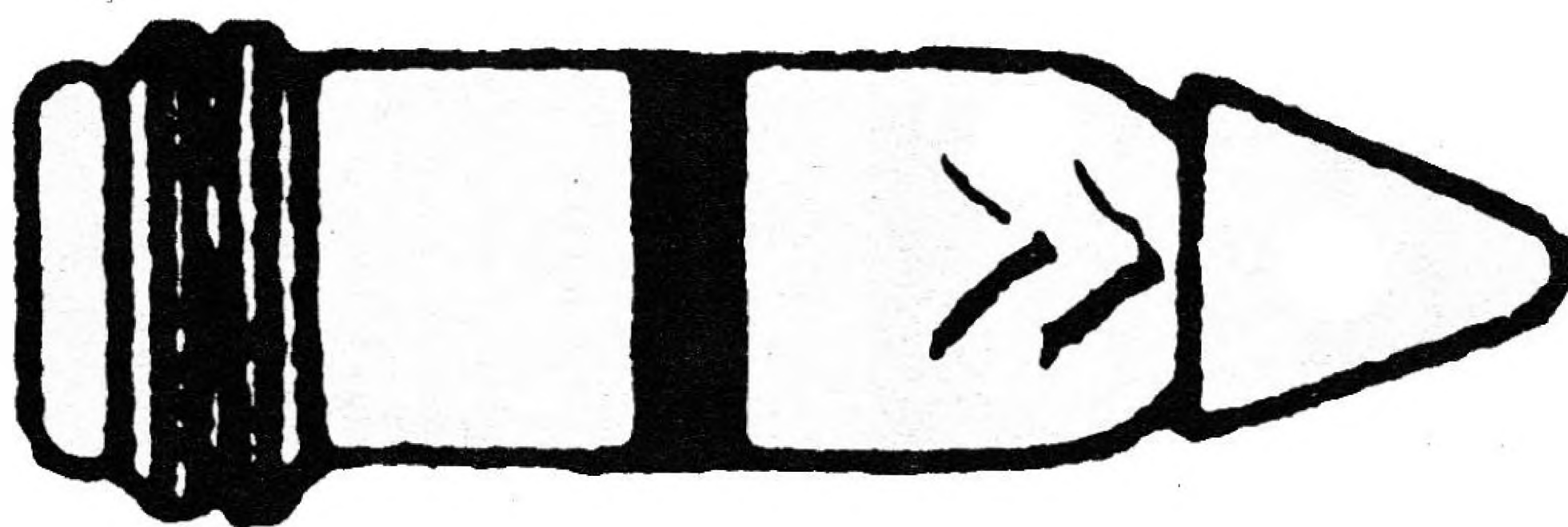
Projectile Weight:

Weight and Type of Filling:

Fuzing:

Guns Used In: 40 cm Gun

Remarks: Rotating band same as shown for Practice
projectile for this gun



Diameter: 400 mm

Designation: Type 91 AP Projectile

Color and Markings: White body, red central band (九一)
(vertically) in black on ogive

Projectile Length:

Projectile Length With Fuze:

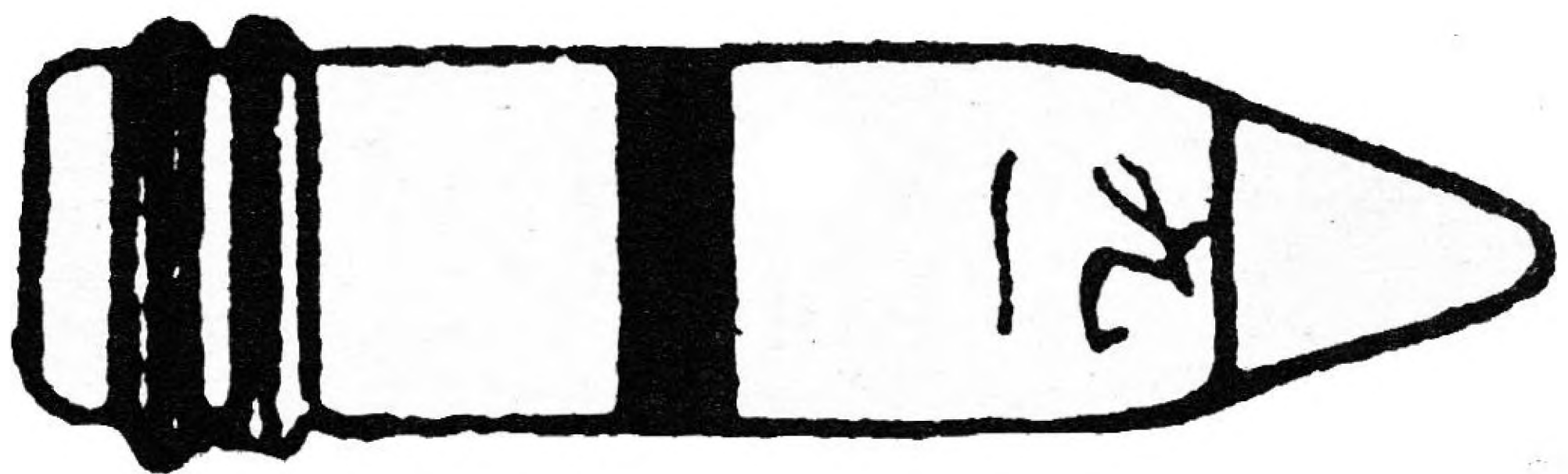
Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 13 Mk. 5 (Cap attached)

Guns Used In: Type 94 40 cm Gun

Remarks: Rotating band same as shown for Practice
projectile for this gun.



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Diameter: 400 mm

Designation: Type 1 AP Projectile

Color and Markings:

Projectile Length:

Projectile Length With Fuze:

Projectile Weight:

Weight and Type of Filling:

Fuzing: Type 13 Mk. 5 (Cap attached)

Guns Used In: 40 cm 45 Cal Gun

Remarks:

Additional Projectiles

The following projectiles have been referred to in documents but the amount of information on hand does not justify their inclusion in the foregoing section:

<u>Projectile</u>	<u>Guns Used In</u>
<u>Hand Thrown</u>	
Type 94 Substitute Smoke Candle A	
Type 94 Floating Smoke Candle A	
Type 94 Floating Smoke Candle B	
Type 94 Thin Smoke Smoke Candle	
Type 94 Signal Smoke Candle. Red, yellow, blue	
10th Year Type Signal Shell, Yellow Dragon	
10th Year Type Signal Shell, Black Dragon	
10th Year Type Ground Signal Shell. White, red, green	
10th Year Type Illuminating Shell A and B	

7.7 mm

Type 97 Tracer Projectile	Type 97 Tank HMG
Type 97 Incendiary Projectile	Type 97 Tank HMG
Type 97 AP Projectile	Type 97 Tank HMG
Type 89 Cupro-Nickel Jacketed Projectile	Type 92 HMG
Type 97 Cupro-Nickel Jacketed Projectile	Type 97 Tank HMG
Type 97 Ball Projectile	Type 97 Tank HMG

50 mm

Type 93 Practice Signal Shells	10th Year Type Grenade Discharger
Green Parachute Star	

50 mm (continued)

Red Parachute Star

White Parachute Star

Yellow Dragon

Black Dragon

White Dragon

Green Dragon

Red Dragon

White Single Shooting Star

White Double Shooting Star

White Triple Shooting Star

Red Single Shooting Star

Red Double Shooting Star

Red Triple Shooting Star

Green Single Shooting Star

Green Double Shooting Star

Green Triple Shooting Star

Red Flag

Yellow Flag

Black Flag

White Flag

Green Flag

National Flag

Type 93 Practice Illuminating
Shell

11th Year Type Illuminating
Shell A, B

10th Year Type
Grenade Discharger

10th Year Type
Grenade Discharger

12 mm

Ball Projectile	Vickers Type 12 mm MG
Tracer Projectile	Vickers Type 12 mm MG
Incendiary Projectile	Vickers Type 12 mm MG
AP Projectile	Vickers Type 12 mm MG

25 mm

Target Projectile	Type 96 Automatic Cannon
AP Projectile, Model 2	Type 96 Automatic Cannon

40 mm

Tracer Projectile	Type 91 AA Automatic Cannon
AP Projectile	Type 91 AA Automatic Cannon
HE Projectile	Type 91 AA Automatic Cannon
Practice Projectile	Vickers Type 40 mm Automatic Cannon
Time Practice Projectile	Vickers Type 40 mm Automatic Cannon
Tracer Projectile	Vickers Type 40 mm Automatic Cannon
AP Projectile	Vickers Type 40 mm Automatic Cannon
HE Projectile	Vickers Type 40 mm Automatic Cannon
HE Projectile, Modif. 1	Vickers Type 40 mm Automatic Cannon
HE-T Projectile	Vickers Type 40 mm Automatic Cannon
HE-T Projectile, Modif. 1	Vickers Type 40 mm Automatic Cannon

57 mm

Type 1 AP Projectile

Type 1 57 mm Gun

75 mm

Type 97 Semi-steel Long-pointed Projectile

80 mm

Practice Projectile

Type 88 40 cal 8 cm DP Gun
3rd Year Type 40 cal 8 cm
DP Gun

Practice Projectile

Type 98 8 cm 60 cal DP Gun

Time Practice Projectile

Type 88 8 cm 40 cal DP Gun
3rd Year Type 8 cm 40 cal
DP Gun

AP Projectile

Type 88 8 cm 40 cal DP Gun
3rd Year Type 8 cm 40 cal
DP Gun

Common Projectile

8 cm Short Gun

Common Projectile

Type 88 8 cm 40 cal DP Gun
3rd Year Type 8 cm 40 cal
DP Gun

Common Projectile

Type 98 8 cm 60 cal DP Gun

Mk. 3 Common Projectile,
Modif. 1

Type 88 8 cm 40 cal DP Gun
3rd Year Type 8 cm 40 cal
DP Gun

100 mm

HE Projectile

Type 98 10 cm DP Gun

120 mm

Practice Projectile

12 cm Short Gun

Anti-submarine Projectile,

12 cm Short Gun
10th Year Type 12 cm 45 cal
DP Gun

Illuminating Projectile

10th Year Type 12 cm 45 cal
DP Gun

120 mm (continued)

Illuminating Projectile A	10th Year Type 12 cm 45 cal DP Gun
Incendiary Projectile	10th Year Type 12 cm 45 cal DP Gun
Incendiary Projectile	12 cm Short Gun
Incendiary Shrapnel Projectile	10th Year Type 12 cm 45 cal DP Gun
Incendiary Shrapnel Projectile	12 cm Short Gun
Smoke Projectile	10th Year Type 12 cm 45 cal DP Gun
Common Projectile	12 cm Short Gun
Common Projectile, Modif. 4	12 cm 45 cal DP Gun

127 mm

Smoke Projectile	12.7 cm Gun
Illuminating Projectile B, Modif. 2	Type 88 12.7 cm 40 cal DP Gun Type 89 12.7 cm 40 cal DP Gun
Common Projectile, Modif. 4	12.7 cm 40 cal DP Gun
Type 3 Common Projectile, Modif. 1	Type 88 12.7 cm 40 cal DP Gun Type 89 12.7 cm 40 cal DP Gun
Type 3 Common Projectile	Type 88 12.7 cm 40 cal DP Gun Type 89 12.7 cm 40 cal DP Gun

150 mm

Type 0 Common Projectile (Previously 15 cm Gun designated Mk. 5)	
Type 1 AP Projectile	Type 96 15 cm Howitzer

155 mm

Type 0 Common Projectile (Previously 15.5 cm Gun designated Type 91)

200 mm

Anti-submarine Projectile	20 cm Short Gun
AP Projectile	20 cm 45 cal Gun
Barrage Projectile	20 cm Short Gun
Type 0 Common Projectile	20 cm Short Gun
Common Projectile, Modif. 1	20 cm 45 cal Gun

300 mm

Type 90 Improved AP-HE Projectile	7th Year Type 30 cm Howitzer
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400 mm

Type 1 Substitute Projectile, Models 1, 2, 3, 4 (Previously designated Mk. 1,2,3,4)	Type 94 40 cm Gun
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